

SONY®

NETWORK INTERFACE UNIT

BDX-N1000

NETWORK ADAPTER BOARD
BDKP-N1001

NETWORK ADAPTER BOARD
BDKP-N1002

NETWORK ADAPTER BOARD
BDKP-N1003

NETWORK ADAPTER BOARD
BDKP-N1004

MAINTENANCE MANUAL
1st Edition

警告

このマニュアルは、サービス専用です。

お客様が、このマニュアルに記載された設置や保守、点検、修理などを行うと感電や火災、人身事故につながる可能性があります。

危険をさけるため、サービストレーニングを受けた技術者のみご使用ください。

WARNING

This manual is intended for qualified service personnel only.

To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.

Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegebenen Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

AVERTISSEMENT

Ce manuel est destiné uniquement aux personnes compétentes en charge de l'entretien. Afin de réduire les risques de décharge électrique, d'incendie ou de blessure n'effectuer que les réparations indiquées dans le mode d'emploi à moins d'être qualifié pour en effectuer d'autres. Pour toute réparation faire appel à une personne compétente uniquement.

BDX-N1000	Serial No. 10001 and Higher
BDKP-N1001	Serial No. 10001 and Higher
BDKP-N1002	Serial No. 10001 and Higher
BDKP-N1003	Serial No. 10001 and Higher
BDKP-N1004	Serial No. 10001 and Higher

**Attention-when the product is installed in Rack:
(For BDX-N1000)**

1. Prevention against overloading of branch circuit

When this product is installed in a rack and is supplied power from an outlet on the rack, please make sure that the rack does not overload the supply circuit.

2. Providing protective earth

When this product is installed in a rack and is supplied power from an outlet on the rack, please confirm that the outlet is provided with a suitable protective earth connection.

3. Internal air ambient temperature of the rack

When this product is installed in a rack, please make sure that the internal air ambient temperature of the rack is within the specified limit of this product.

4. Prevention against achieving hazardous condition due to uneven mechanical loading

When this product is installed in a rack, please make sure that the rack does not achieve hazardous condition due to uneven mechanical loading.

(For BDKP-N1002)

Laser Diode Properties

Material	: InGaAsP
Wave length	: 1300 nm
Emission duration	: Continuous
Laser output power (average)	: 0.16 mW (max.)

CAUTION

The use of optical instruments with this product will increase eye hazard.

CLASS 1
LASER PRODUCT
LASER KLASSE 1
PRODUKT

This Network Interface Unit is classified as a CLASS 1 LASER PRODUCT.
The CLASS 1 LASER PRODUCT label is located on the rear panel.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ.
Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.

Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.

Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

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Manual Structure

Purpose of this manual

This manual is the maintenance manual of the BDX-N1000 Network Interface Unit and the BDKP-N1001/N1002/N1003/N1004 Network Adapter Boards.
This manual is intended for use by trained system and service engineers.
This manual describes information that premise the service based on component replacement.

Related manuals

Besides this Maintenance Manual, the following manuals are available for the BDX-N1000.

- **Operation Manual (Supplied with the BDX-N1000)**
This manual explains the overview of the BDX-N1000, and the system configuration examples.
- **Installation Manual (Supplied with the BDX-N1000)**
This manual describes information regarding installation.

Contents

The following is a summary of all the sections for understanding the contents of this manual.

Section 1 Service Overview

Explains the removal of cabinet, how to replace the parts and boards, etc.

Section 2 Spare Parts

Describes the spare parts list.

Section 3 Semiconductor Pin Assignments

Describes the pin assignments of semiconductors.

Section 4 Block Diagram

Describes the overall block diagram.

Section 5 Schematic Diagrams

Describes the schematic diagrams of the IF-694, CCM-36/36A and CCM-40/40A boards, and frame wiring.

Section 6 Board Layouts

Describes the board layouts of the IF-694, CCM-36/36A and CCM-40/40A boards.

Trademarks

Registered trademarks used in this manual are follows.

- Ethernet is a registered trademark of Xerox Corporation.
- Windows is a registered trademark of Microsoft Corporation.
- IBM and AT are registered trademarks of International Business Machines Corporation.

Section 1

Service Overview

1-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked $\triangle$ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.

Parts list has the present standardized repair parts.

3. Stock of Parts

Parts marked with “o” at SP (Supply Code) column of the spare parts list may not be stocked. Therefore, the delivery date will be delayed.

4. Units Representation

The following represented units are changed or omitted in writing.

	Units	Representation
Capacitance	μF	μF
Inductance	μH	μH
Resistance	Ω	Abbreviation
Temperature	$^{\circ}\text{C}$	XXX-DEG-C

5. Replacement of Optional Boards

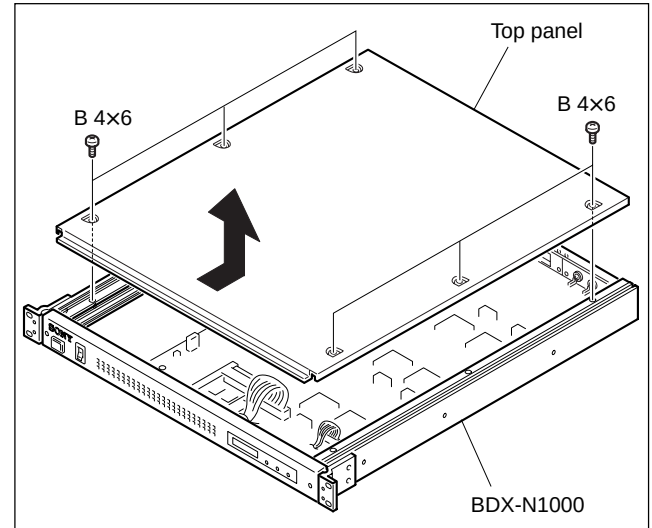
If it is necessary to replace the optional board, please place an order the BDKP-Nxxxx through the sales route.

- CCM-36 board : BDKP-N1001
- CCM-36A board : BDKP-N1002
- CCM-40 board : BDKP-N1003
- CCM-40A board : BDKP-N1004

1-2. Removing the Cabinet

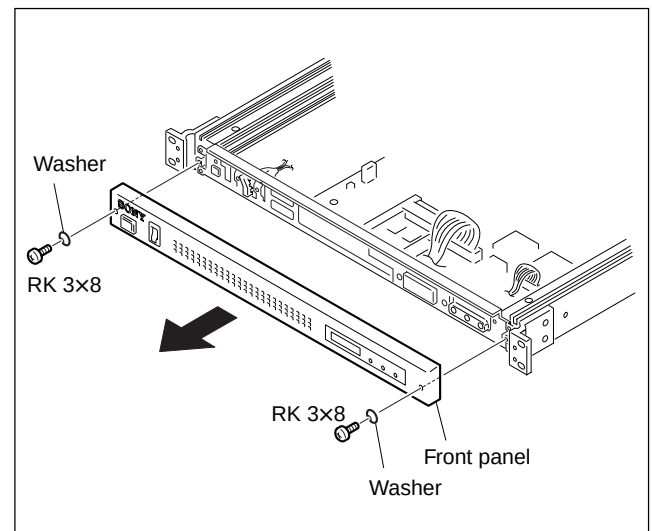
1-2-1. Removing the Top Panel

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the six screws (B 4×6) and remove the top panel.

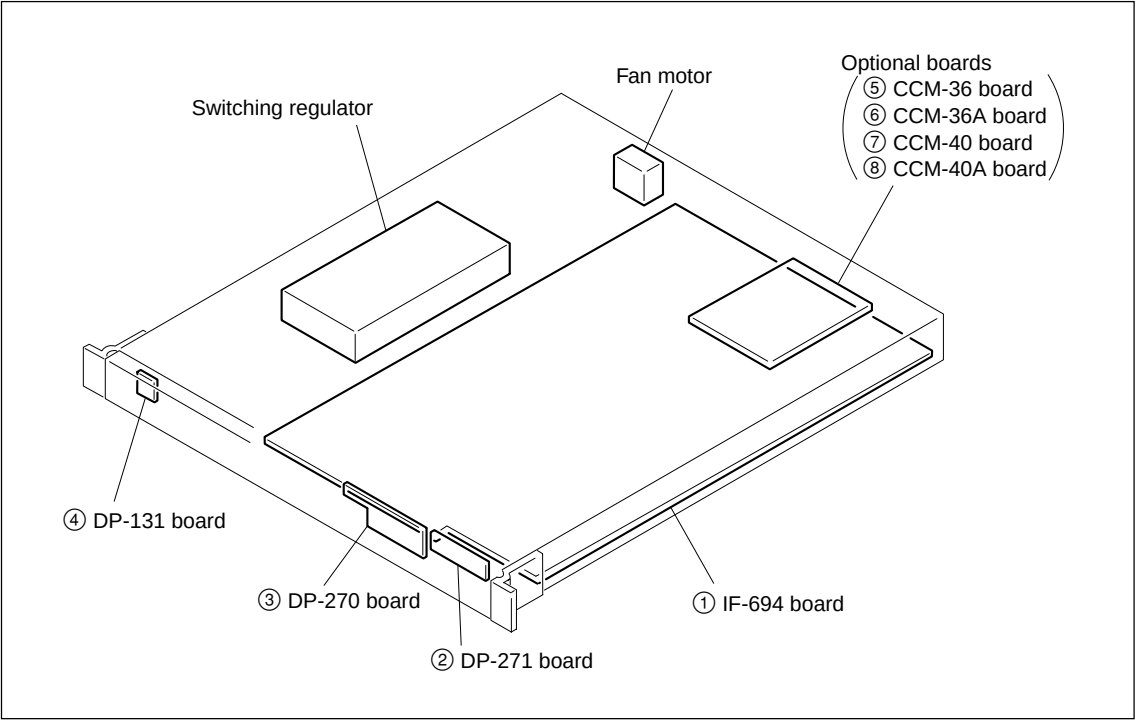


1-2-2. Removing the Front Panel

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the two screws (RK 3×8) and the two washers. Remove the front panel to the front.



1-3. Locations of the Main Parts and Boards



Circuit Configuration



Board name	Main function
① IF-694 board	ATM board
② DP-271 board	LED board
③ DP-270 board	Display board
④ DP-131 board	Indicator light board
⑤ CCM-36 board (BDKP-N1001)	ATM interface board (Multi Mode Fiber)
⑥ CCM-36A board (BDKP-N1002)	ATM interface board (Single Mode Fiber)
⑦ CCM-40 board (BDKP-N1003)	ATM interface board (DS3)
⑧ CCM-40A board (BDKP-N1004)	ATM interface board (E3)

1-4. Replacing the Main Parts

1-4-1. Switching Regulator

Note

Do not make any attempt to repair or to replace anything inside of the switching regulator.

The switching regulator is an important part for safety. Replacing parts inside the switching regulator could cause a fire or electric shock.

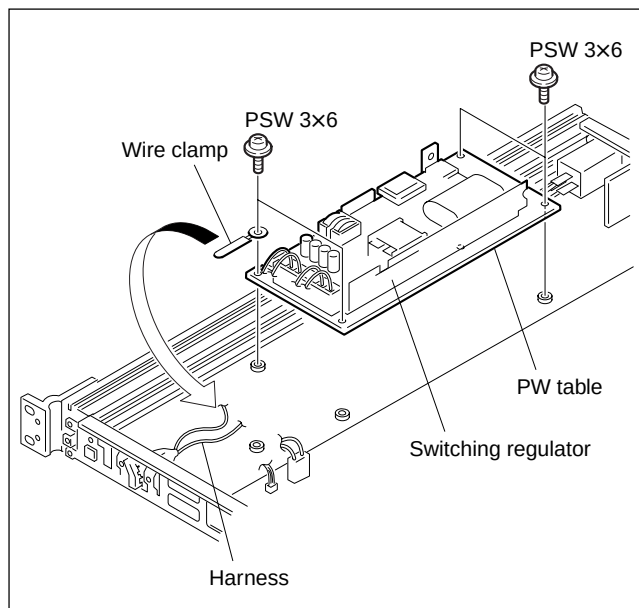
Replacement Part

Part name : Switching regulator

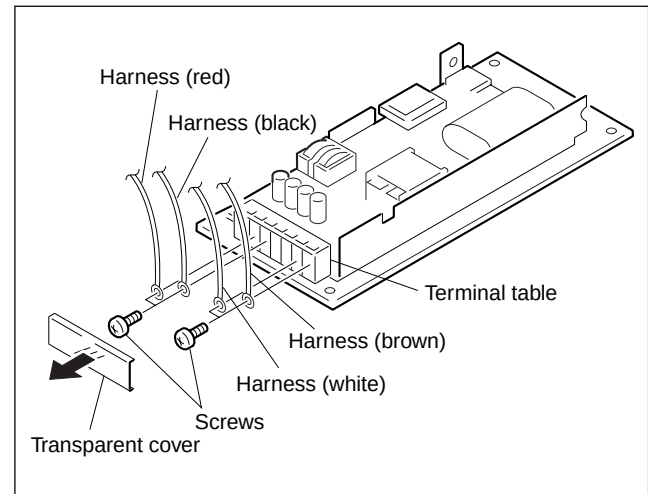
Part No. : 1-413-917-12

Replacement Procedure

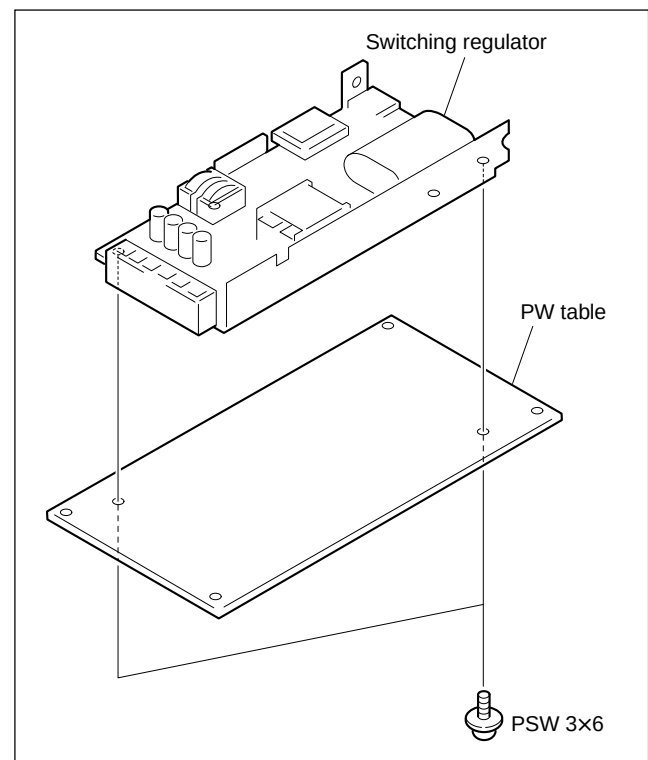
1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the top panel. (Refer to Section 1-2-1.)
3. Remove the harness from the wire clamp.
4. Remove the four screws (PSW 3×6) and remove the switching regulator together with the PW table.



5. Remove the transparent cover of the terminal table.
6. Remove the four screws and remove the four harnesses.

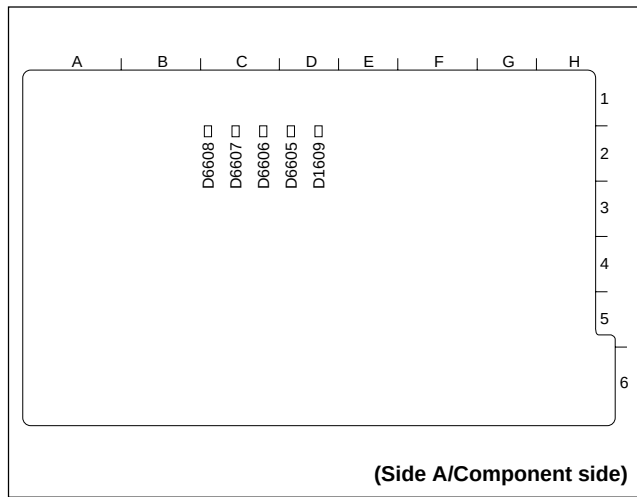


7. Remove the two screws (PSW 3×6) and remove the PW table.



8. Attach the new switching regulator by reversing the disassembly steps 7 to 3.

9. Turn on the main power and check that the all five LEDs (D1609, D6605 to D6608) of the IF-694 board turn on.



10. Attach the top panel.

1-4-2. Fan Motor

If the fan stops during normal operation, the indicator on the front panel flashes in red. If this happens, turn off the main power immediately and replace the fan motor.

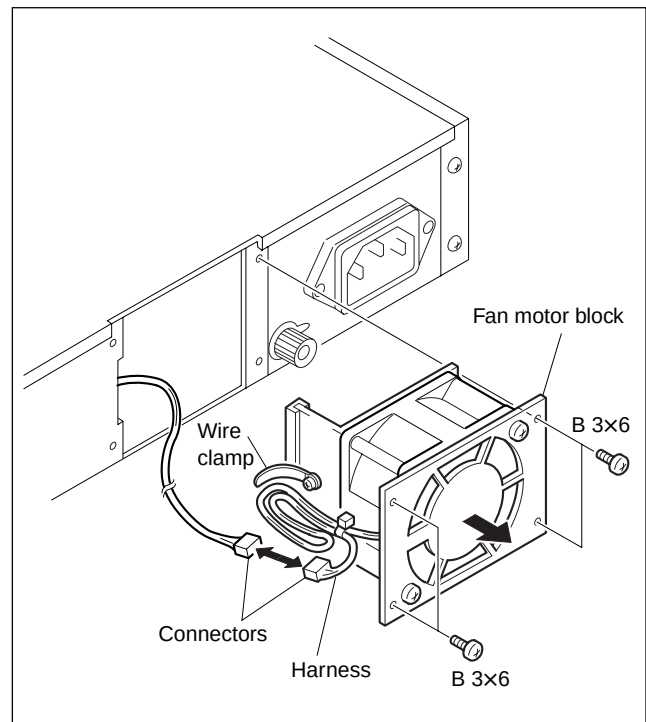
Replacement Part

Part name : Fan motor

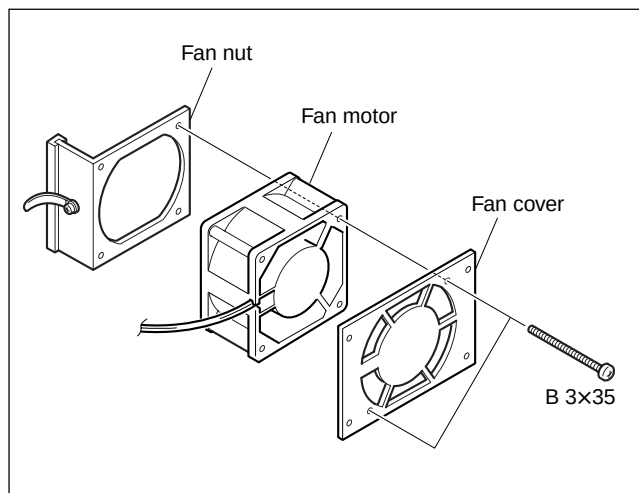
Part No. : 1-698-986-11

Replacement Procedure

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the four screws (B 3×6) and remove the fan motor block.
3. Remove the harness from the wire clamp and remove the connector.



4. Remove the two screws (B 3×35) and remove the fan nut and the fan cover from the fan motor.



5. Attach the new fan motor by reversing the disassembly steps 4 to 2.
6. Turn on the main power and check the following:
 - The fan motor rotates.
 - The indicator on the front panel lights in green.

1-4-3. Lithium Battery

The backup lithium battery is installed on IC5100 (E-3) on the IF-694 board.

The lithium battery backs up the memory that stores the following data:

- Date and time
- Error logs

These data will be deleted when the backup lithium battery is removed.

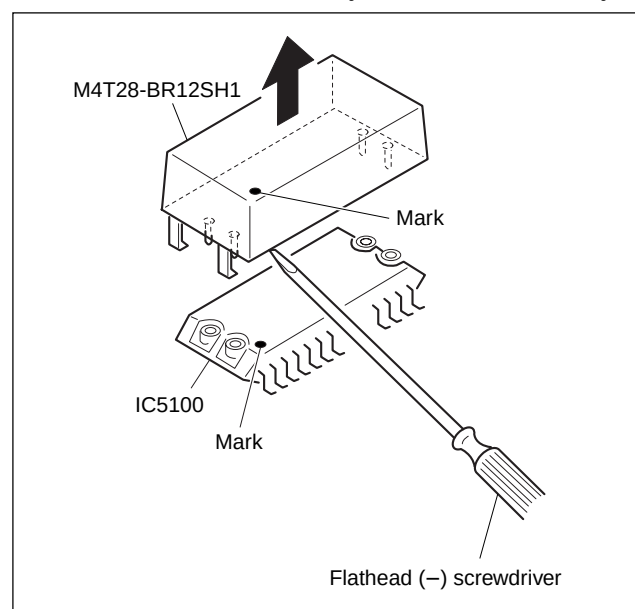
After replacing the battery, re-set the date and time.

Replacement Part

Part name :	Crystal oscillator built-in type lithium battery
Part No. :	1-767-156-11
Battery specification :	Battery name M4T28-BR12SH1
	Voltage 2.8 V
	Capacity 49 mAH

Replacement Procedure

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the top panel. (Refer to Section 1-2-1.)
3. Insert a flat screwdriver tip between the IC on the IF-694 board and the battery and remove the battery.



4. While aligning the new battery with the pin-1 mark of the IC, attach the new battery.
5. Re-set the date and time. (Refer to Section 1-6.)
6. Attach the top panel.

1-5. Replacing the Printed Circuit Boards

1-5-1. IF-694 Board

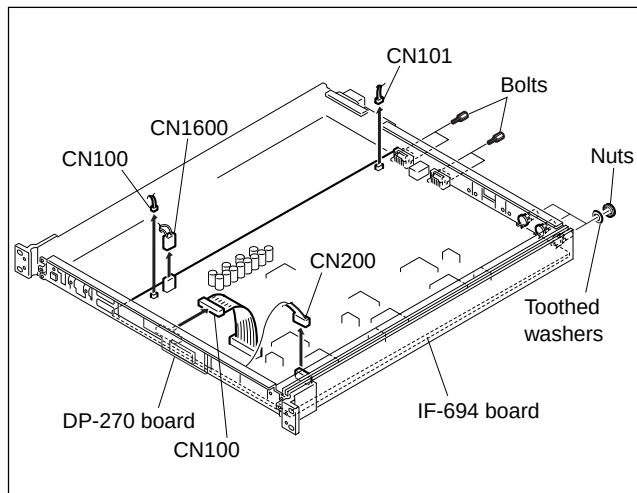
Replacement Part

Part name : Mounted circuit board, IF-694

Part No. : A-8321-437-A

Replacement Procedure

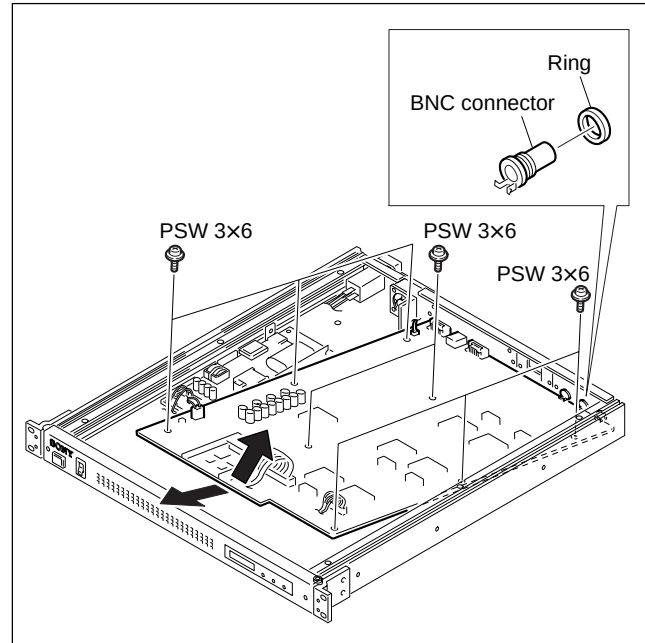
1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the top panel. (Refer to Section 1-2-1.)
3. Remove the optional board. (Refer to Section 1-5-2 or Section 1-5-3.)
4. Remove the four connectors (CN100, CN101, CN200 and CN1600) from the IF-694 board.
5. Remove the connector CN100 from the DP-270 board.
6. Remove the three nuts fixing the three BNC connectors and the three toothed washers.
7. Remove the four bolts fixing the two D-SUB connectors.



8. Remove the eight screws (PSW 3×6) and raise the front side of the IF-694 board and remove it by pulling it up at an angle.

Note

The BNC connector is fitted with a ring that is not secured. Be careful not to lose the ring when removing the board.



9. Attach the new IF-694 board by reversing the disassembly steps 8 to 4.
10. Attach the optional board. (Refer to the Installation Manual.)
11. Return all the settings to those before the board was replaced.

If the setup data has been backed up, download the backup data to the new IF-694 board.

If the setup data was not backed up, use the Controller Software and re-set all the settings.

(Refer to Section 1-6.)

Note

If not all of the settings are returned to those before the board was replaced, the BDX-N1000 may not operate correctly.

The new IF-694 board is delivered with the default setup when shipped from the factory. Be sure to return all the settings to those before the board was replaced.

12. Return the switch of S600 (A-1) on the IF-694 board to the setting before it was replaced.
13. Attach the top panel.

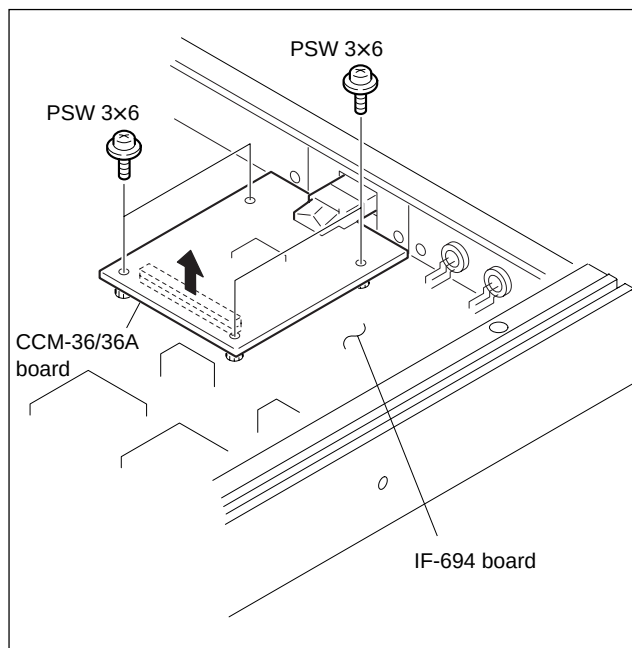
1-5-2. CCM-36/36A Board

Replacement parts

CCM-36 board : Please order the BDKP-N1001.
CCM-36A board : Please order the BDKP-N1002.

Replacement Procedure

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the top panel. (Refer to Section 1-2-1.)
3. Remove the four screws (PSW 3×6) fixing the CCM-36/36A board.
4. Remove the CCM-36/36A board from the IF-694 board.



5. Attach the new CCM-36/36A. (Refer to the Installation Manual.)
6. Perform the frequency check and picture check. (Refer to the Installation Manual.)
7. Attach the top panel.

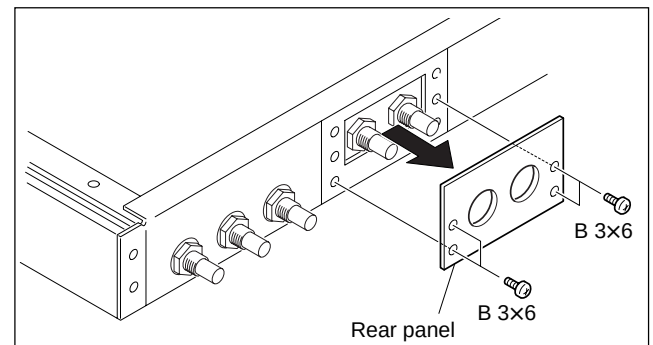
1-5-3. CCM-40/40A Board

Replacement parts

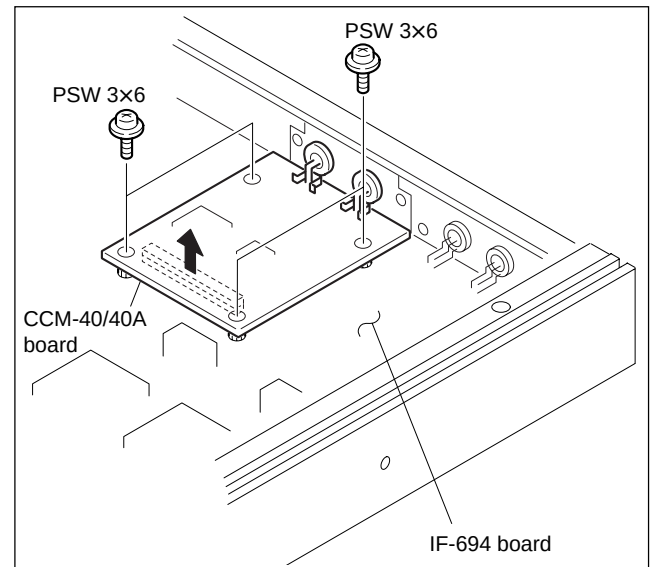
CCM-40 board : Please order the BDKP-N1003.
CCM-40A board : Please order the BDKP-N1004.

Replacement Procedure

1. Turn off the main power and remove the AC plug from the outlet.
2. Remove the top panel (Refer to Section 1-2-1.)
3. Remove the four screws (B 3×6) and remove the rear panel.



4. Remove the four screws (PSW 3×6) fixing the CCM-40/40A board.
5. Remove the CCM-40/40A from the IF-694 board.



6. Attach the new CCM-40/40A board and rear panel. (Refer to the Installation Manual.)
7. Perform the frequency check and picture check. (Refer to the Installation Manual.)
8. Attach the top panel.

1-6. How to Use the Controller Software

Use the controller software to perform the various setups of the BDX-N1000.

- BDX-N1000 controller : J-6450-350-A

The procedure for setting the following items is described below as an example :

- Date and time
- PCR dejitter
- Test mode
- IP address

Operating environment

Use a computer of the following specifications:

PC : IBM PC/AT compatible

OS : Windows 95 (English version/Japanese version) or

Windows NT 4.0 (English version/Japanese version)

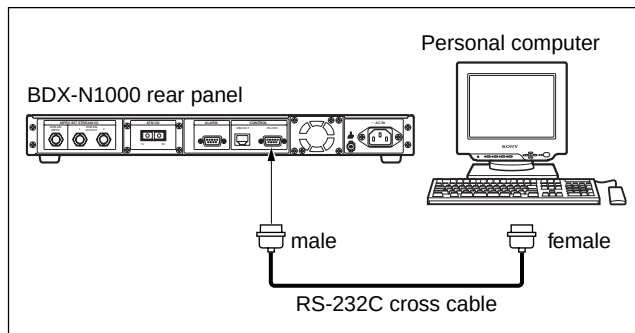
Memory: 32 MB or more

Connection

Connect the RS-232C connector (D-sub 9-pin) of the BDX-N1000 to the communication port (COM1 or COM2) of the personal computer with a RS-232C cross cable.

Note

Prepare the cable referring to the connecting information shown on the next page.



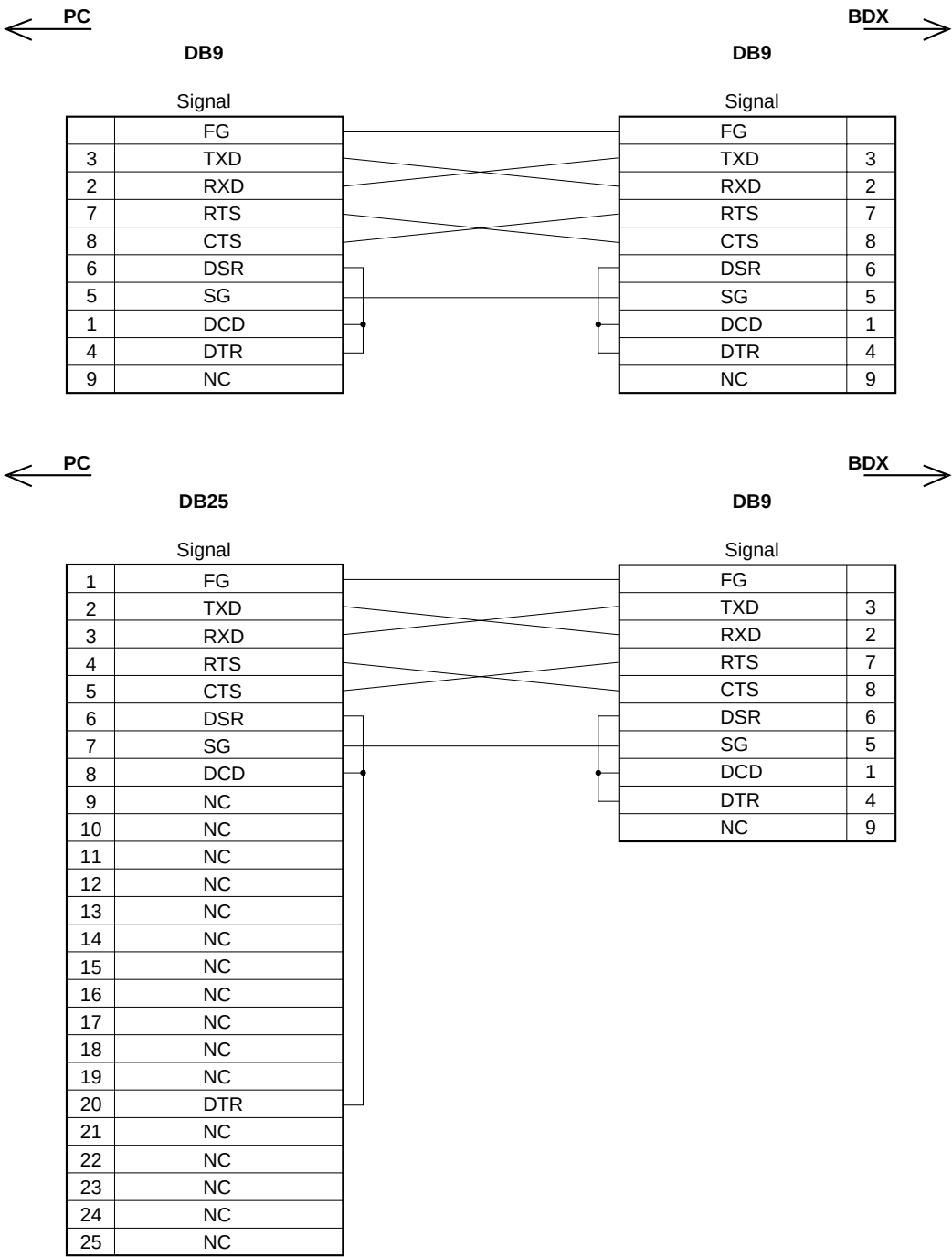
Starting up the BDX-N1000 controller software

1. Set all switches of S600-5 to S600-8 (A-1) on the IF-694 board to the CLOSE (lower) position.
2. Turn on the main power of the BDX-N1000 and start up the controller software.

When all setups are complete

1. Click [OK] and exit the software.
2. Return the switch settings of S600-5 to S600-8 (A-1) on the IF-694 board.
3. Remove the cable that is connected to the RS-232C connector of the BDX-N1000.

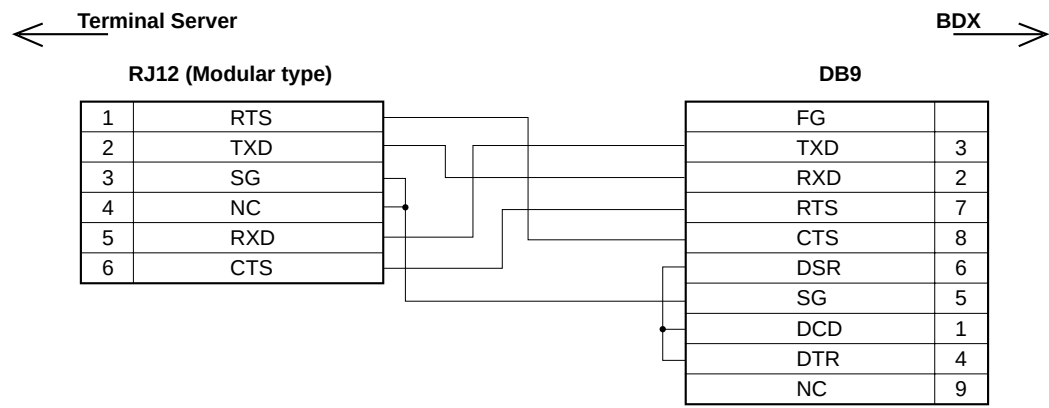
When connecting directly the BDX-N1000 to a personal computer



When connecting the BDX-N1000 to a host computer via LAN (Terminal Server: 6-pin port)

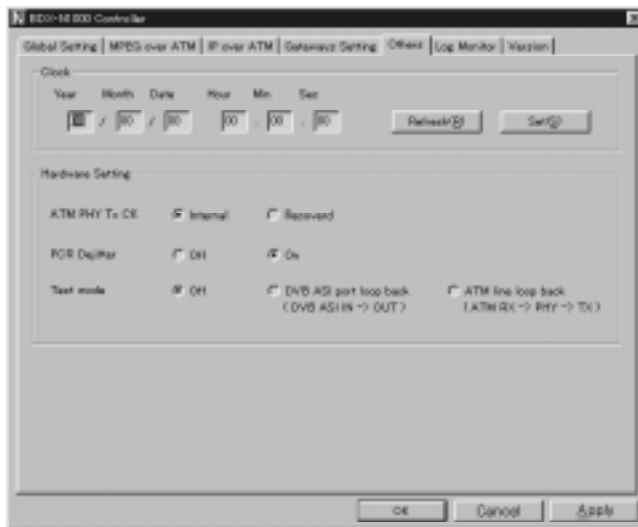
Note

The cable connection differs depending on manufacturers of the terminal server. Check the cable connections of the respective terminal servers.



Setting the Date and Time

1. Select the “Others” page of the menu.
2. Enter year, month, day and time data into the “Clock” area.
3. Click “Set”.
4. Click “Refresh” several times and check that the “Sec” value increments.



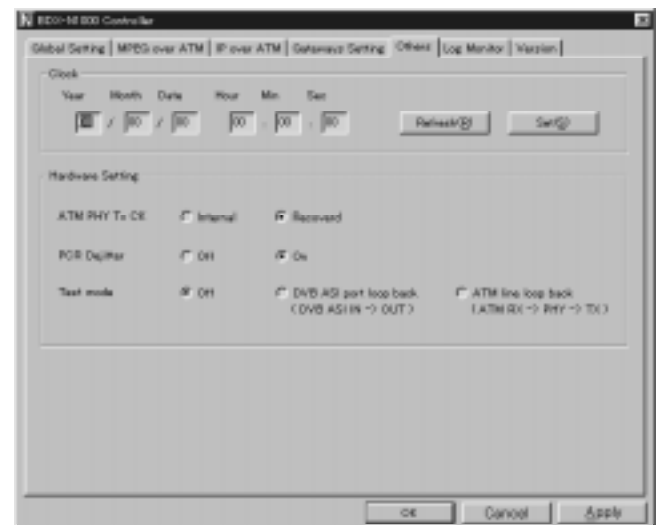
Setting the PCR DeJitter

Note

To use the PCR dejitter function, the following conditions must be satisfied.

- Use the PCR dejitter function in a network in which all devices are synchronized.
- Set “ATM PHY Tx CK” of the “Hardware Setting” area to the “Recovered” position. (The “ATM PHY Tx CK” is automatically set to “Recovered” when “PCR DeJitter” is turned on.)
- Use the PCR dejitter function with the Tx and Rx in which their PCR dejitter functions are set to On.

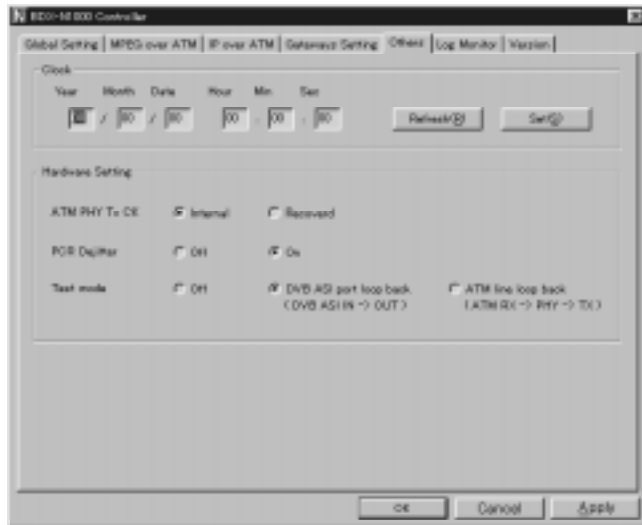
1. Select the “Others” page of the menu.
2. Turn on “PCR DeJitter” in the “Hardware Setting” area.
3. Click “Apply”.



Setting the Test Mode

The loop back test can test the two ports of the BDX-N1000.

1. Select the “Others” page of the menu.
2. Select either “DVB ASI port loop back” or “ATM line loop back” in “Test mode” of the “Hardware Setting” area.
3. Click “Apply”.



Setting the IP Address

1. Select the “Global Setting” page of the menu.
2. Enter the “IP Address” and “Subnet Mask” into the “IP Address Setting” “Ethernet Port” area.
3. Click “Apply”.



Notes

What is the DVB ASI port loop back?

“DVB ASI port loop back” outputs the TS data that is input to the DVB ASI INPUT connector on the rear panel of the BDX-N1000, directly to the output connectors DVB ASI OUTPUT 1 and 2, bypassing all the internal ATM circuits.

This test mode is useful for checking the status of the TS input using local equipment, without having to use equipment at the other end of the communication line.

What is the ATM line loop back?

“ATM line loop back” loops back the data that is input to the ATM Rx connector on the rear panel of the BDX-N1000, through the optional boards (BDKP-N1001, N1002, N1003, N1004) and is output to the ATM Tx connector.

This test mode is useful for performing the loopback test of the ATM line of the equipment at the other end of the communication line.

1-7. Circuit Description

Outline

The BDX-N1000 that is the MPEG2 network interface unit, is the equipment to realize the “MPEG over ATM.”

The BDX-N1000 has the two functions: one is to convert the MPEG TS¹⁾ to the ATM cell and to send out the converted data, while the other function is to receive the ATM cell and to reconstruct the TS.

Transmission and reception of the ATM are possible in both modes of AAL1²⁾ and AAL5³⁾.

The TS supports both of the 188 byte input and the 204 byte input. (However, the AAL5 mode supports only the 188 byte input.)

The BDX-N1000 can support various ATM transmission lines by replacing the optional boards (BDKP-N1001, BDKP-N1002, BDKP-N1003 and BDKP-N1004).

The BDX-N1000 itself can only support the PVC⁴⁾.

ATM transmission block

The ATM transmission block divides TS and converts the divided TS to the ATM cells.

The ATM transmission block supports both the AAL1 and AAL5 modes.

In the AAL1 mode, the FEC⁵⁾ code for error correction is added as the measure for the data error during transmission.

The ATM cells are transmitted on the network at the previously-contracted rate.

In addition, there is a mode in which the TS PCR⁶⁾ jitter that is caused by delay of the ATM cells can be removed.

ATM reception block

The ATM reception block reconstructs the ATM cells and converts them to the TS cell.

The ATM reception block supports both the AAL1 and AAL5 modes.

The data errors that have occurred during transmission are corrected using the FEC code, in the AAL1 mode.

The TS is output at the rate according to the ATM cell rate.

In addition, the ATM reception block contains the mode in which the TS PCR jitter that is caused by the delay of the ATM cells can be removed.

CPU block

The CPU block establishes the setups using the commands that the CPU block receives from the RS-232C connector or from the 10 BASE-T connector. The CPU block also displays the various errors on the dot matrix display and by the LED on the front panel, and also outputs the errors to the alarm output connector on the rear panel to notify the error to external devices.

In addition, the CPU block has the signaling function in order to realize the IP packet communication (IP over ATM) and its services through the ATM line. (Its software is optional.)

1) TS : Transport Stream

2) AAL1: ATM Adaptation Layer 1

3) AAL5 : ATM Adaptation Layer 5

4) PVC : Permanent Virtual Connection

5) FEC : Forward Error Correction

6) PCR : Program Clock Reference

1-8. Error Message

Result of the self-diagnosis is displayed on the display of the front panel as the error message.

Message	Meaning	Measure
"MEM NG"	An error has occurred during the D-RAM check.	Check peripheral of IC703 (F-1) and IC704 (F-2) on the IF-694 board.
"NG: DPRAM"	An error has occurred during the dual port RAM check.	Check peripheral of IC502, IC503 (E-5), IC1402 and IC1403 (E-6) on the IF-694 board.
"NG: NONRT"	An error has occurred in the CPU data transmission and reception circuit.	Check peripheral of IC500 (D-5), IC502, IC503 (E-5), IC1401 (D-6), IC1402 and IC1403 (E-6) on the IF-694 board, and optional board.
"PROTECT!"	The write protect function of the FLASH ROM (CH0) is enabled.	Set S600-8 (A-1) on the IF-694 board to OPEN (upper position).
"Copy NG"	Contents of the IC card do not agree with those of the FLASH ROM.	Check peripheral of IC705 (F-1), IC706 (F-2), IC707 (G-1), and IC708 (G-2) on the IF-694 board.

Section 2
Spare Parts

2-1. Exploded Views and Mechanical Parts List

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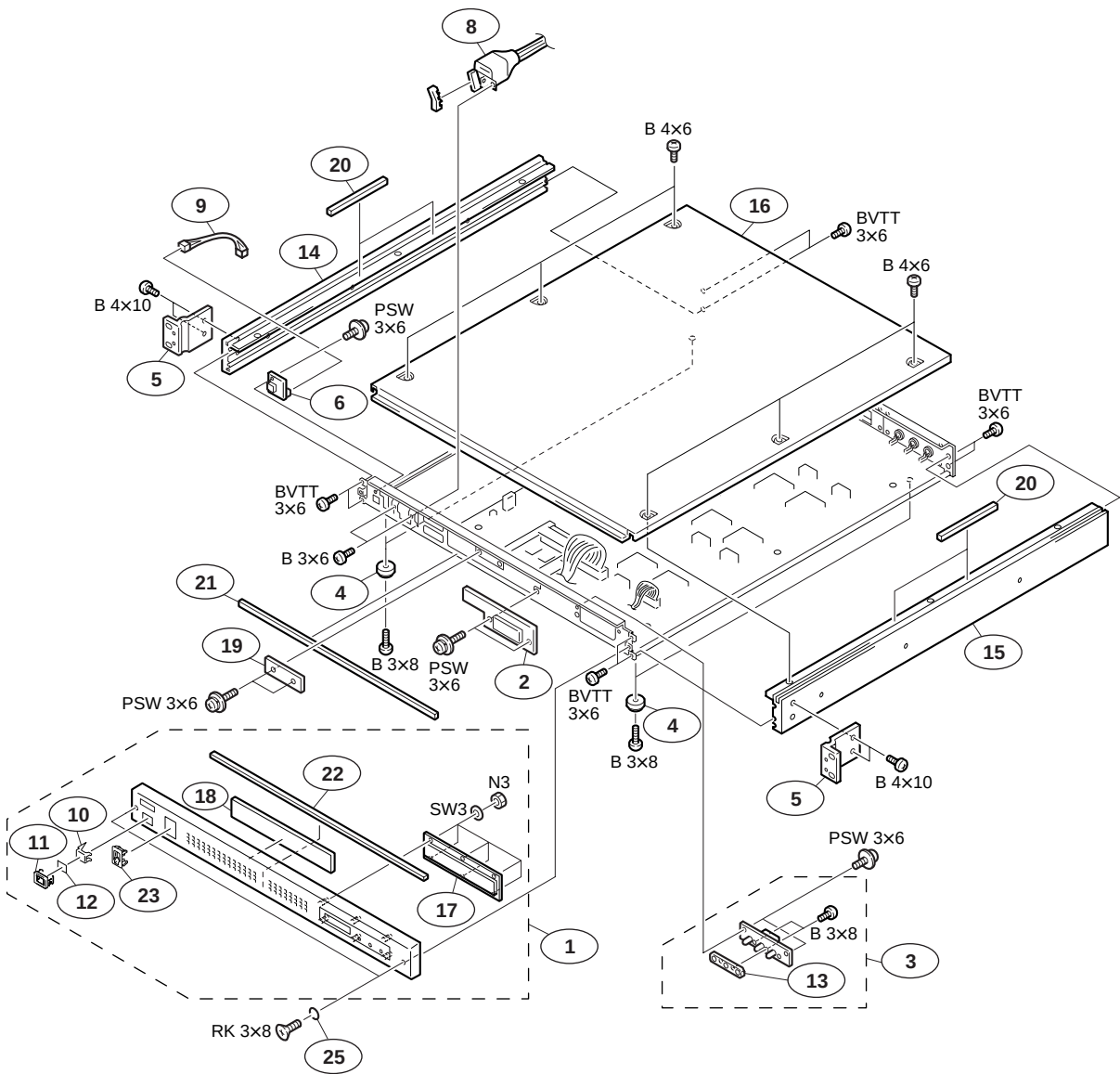
- Front panel
- Top plate
- Side frames

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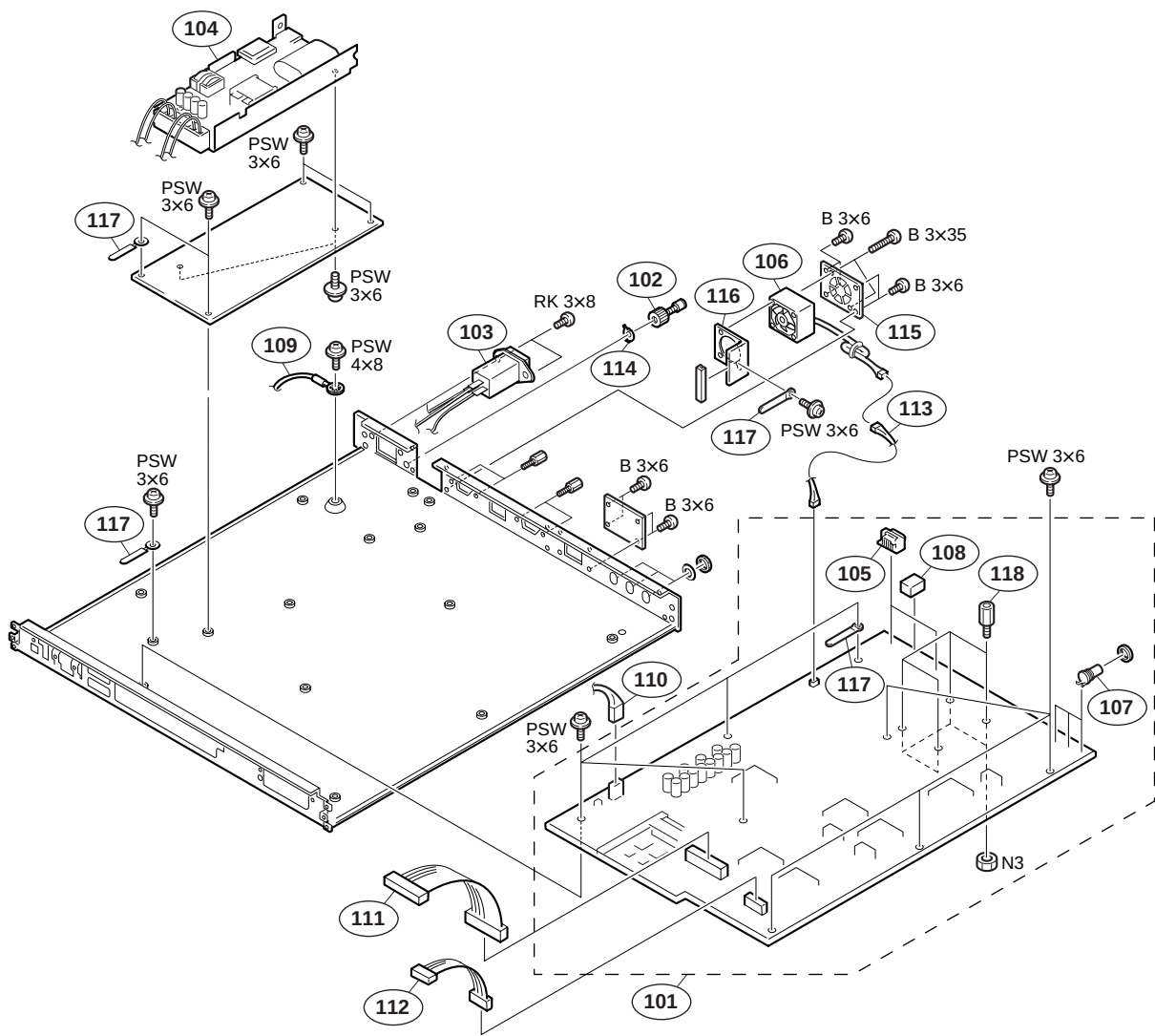
- IF-694 board
- Switching regulator
- Fan motor

BDKP-N1001/N1002 2-6

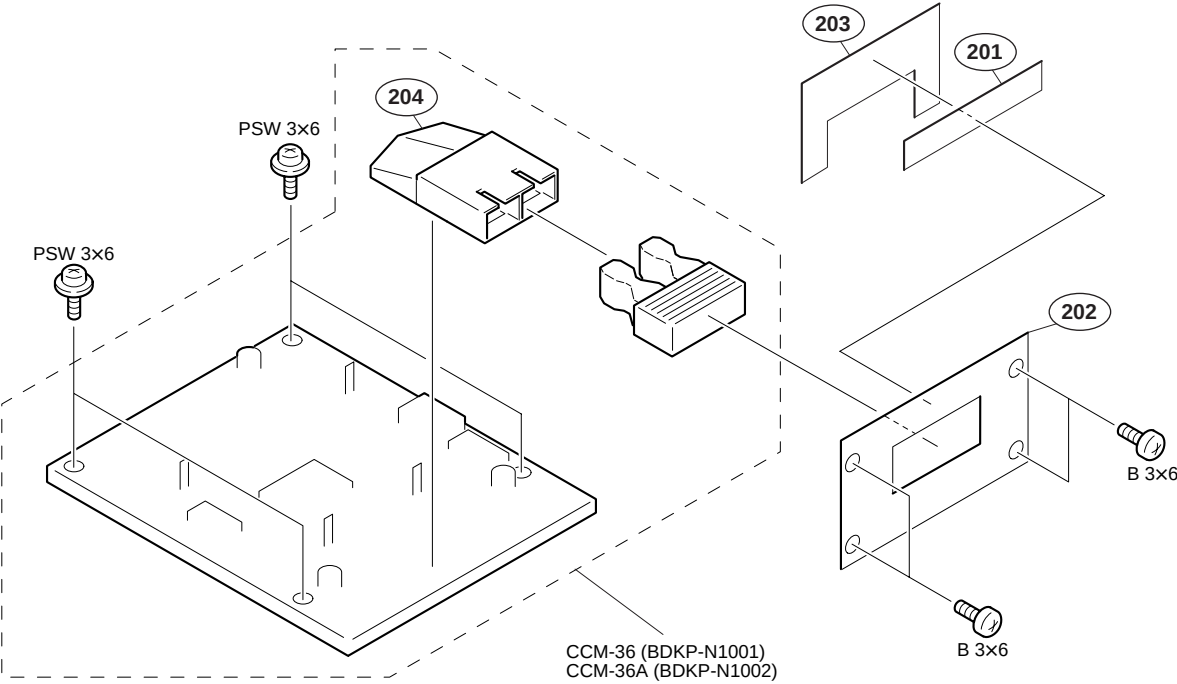
BDKP-N1003/N1004 2-7



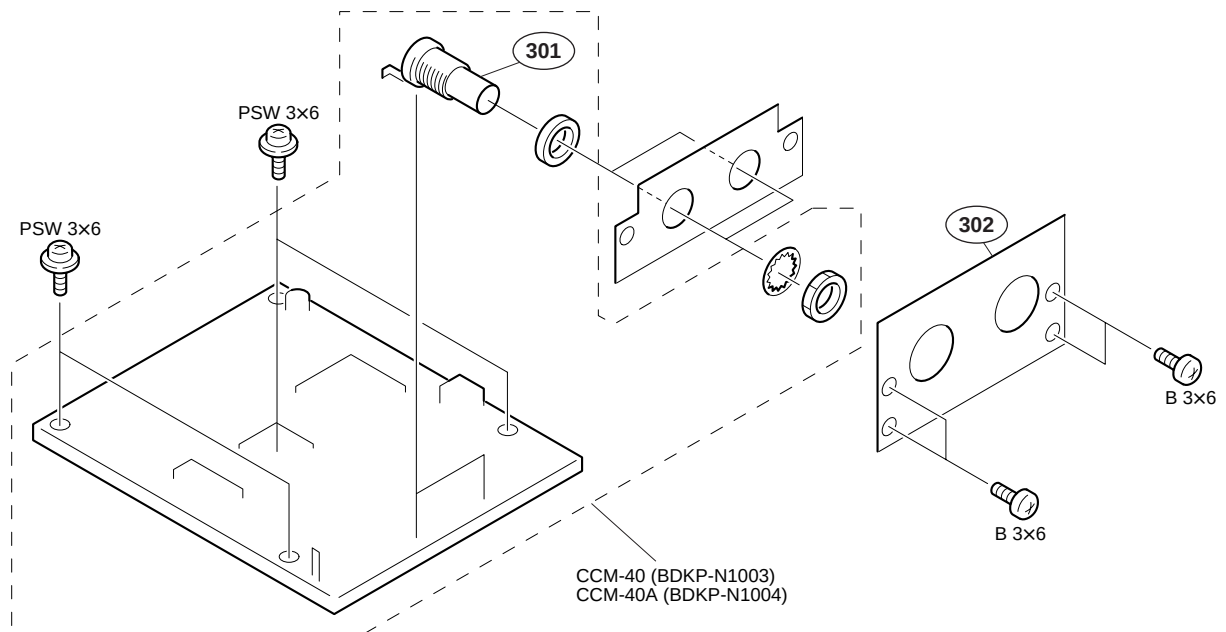
No.	Part No.	SP Description
1	A-8279-090-C	o PANEL ASSY, FRONT
2	A-8321-427-A	o MOUNTED CIRCUIT BOARD, DP-270
3	A-8321-428-A	o MOUNTED CIRCUIT BOARD, DP-271
4	X-3556-910-0	s FOOT ASSY, MF
5	X-3605-329-2	o ASSY, RACK ANGLE (1U)
6	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
8	△ 1-959-364-11	o HARNESS, SUB (AC SW)
9	1-959-368-11	o HARNESS, SUB (PILOT LAMP)
10	2-139-192-01	s FRAME, INDICATOR WINDOW
11	2-139-193-11	s WINDOW, INDICATOR
12	2-249-353-00	s COVER, LAMP
13	3-616-647-02	o HOLDER, LED
14	3-616-649-01	o FRAME, SIDE (L)
15	3-616-650-01	o FRAME, SIDE (R)
16	3-616-651-02	o PLATE, TOP
17	3-616-653-02	o ESCUTCHEON, LED
18	3-616-654-01	s FILTER
19	3-622-408-01	o PLATE, FRONT
20	3-622-409-01	o FOAM, SHIELD (A)
21	3-622-410-01	o FOAM, SHIELD (B)
22	3-622-411-01	o FOAM, SHIELD (C)
23	3-681-054-11	s POWER SW GUARD
24	3-688-814-31	s CAP, SWITCH
25	3-703-224-00	s WASHER (3 DIA.), ORNAMENTAL
	7-623-208-22	s SW 3, TYPE 2
	7-682-348-04	s SCREW +RK 3X8
	7-682-547-09	s SCREW +B 3X6
	7-682-548-04	s SCREW +B 3X8
	7-682-548-09	s SCREW +B 3X8
	7-682-562-04	s SCREW +B 4X10
	7-682-947-01	s SCREW +PSW 3X6
	7-684-023-04	s N 3, TYPE 2
	7-685-871-04	s SCREW +BVTT 3X6 (S)



No.	Part No.	SP Description
101	A-8321-437-A	o COMPLETE CIRCUIT BOARD, IF-694
102	X-2068-004-0	s TERMINAL ASSY
103	△ 1-251-384-11	s INLET (WITH NOISE FILTER)
104	△ 1-413-917-12	s SWITCHING REG. (TDK.FAW05-10R)
105	1-573-566-11	s CONNECT, D-SUB (ANGLE TYPE) 9P
106	1-698-986-11	s FAN, DC
107	1-764-237-11	s CONNECTOR, COAXIAL (BNC TYPE)
108	1-784-825-11	s JACK, MODULAR
109	△ 1-953-860-11	o HARNESS, SUB (WIRE, GROUND)
110	1-959-365-11	o HARNESS, SUB (DC +5)
111	1-959-366-11	o HARNESS, SUB (LED 26)
112	1-959-367-11	o HARNESS, SUB (LED 5)
113	1-959-369-11	o HARNESS, SUB (FAN)
114	2-068-008-00	s WASHER
115	3-616-657-02	o COVER, FAN
116	3-616-663-01	o NUT, FAN
117	3-701-822-01	s HOLDER, WIRE
118	4-924-260-01	o BOSS (D)
	7-682-348-04	s SCREW +RK 3X8
	7-682-547-09	s SCREW +B 3X6
	7-682-556-09	s SCREW +B 3X35
	7-682-947-01	s SCREW +PSW 3X6
	7-682-961-01	s SCREW +PSW 4X8
	7-684-023-04	s N 3, TYPE 2



No.	Part No.	SP Description
201	3-616-655-11	o TAPE, MAGIC
202	3-616-659-01	o PANEL, REAR (1001) (for BDKP-N1001)
	3-616-662-01	o PANEL, REAR (1002) (for BDKP-N1002)
203	3-622-576-01	o FILTER (B)
204	⚠ 8-749-011-70	s IC SDM4201-XC (for BDKP-N1001)
	⚠ 8-749-012-62	s IC SDM7201-XC (for BDKP-N1002)
	7-682-547-09	s SCREW +B 3X6
	7-682-947-01	s SCREW +PSW 3X6



No.	Part No.	SP Description
301	1-764-273-11	s CONNECTOR, COAXIAL (BNC TYPE)
302	3-616-660-11	o PANEL, REAR (1003) (for BDKP-N1003)
	3-616-660-01	o PANEL, REAR (1003) (for BDKP-N1004)
	7-682-547-09	s SCREW +B 3X6
	7-682-947-01	s SCREW +PSW 3X6

2-2. Electrical Parts List

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CCM-36A Board (BDKP-N1002)..... 2-10

CCM-40 Board (BDKP-N1003)..... 2-11

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CCM-36 BOARD (BDKP-N1001)

Ref. No. or Q'ty	Part No.	SP	Description
C1	1-163-038-91	s	CERAMIC 0.1uF 25V
C2	1-126-925-11	s	ELECT 470uF 20% 10V
C3	1-163-038-91	s	CERAMIC 0.1uF 25V
C4	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C5	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C6	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C7	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C8	1-163-038-91	s	CERAMIC 0.1uF 25V
C9	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C10	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C11	1-163-009-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C12	1-163-038-91	s	CERAMIC 0.1uF 25V
C13	1-163-038-91	s	CERAMIC 0.1uF 25V
C14	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C15	1-163-009-11	s	CERAMIC, CHIP 0.001uF 10% 50V
C16	1-163-038-91	s	CERAMIC 0.1uF 25V
C17	1-163-038-91	s	CERAMIC 0.1uF 25V
C18	1-126-392-11	s	ELECT, CHIP 100uF 20% 6.3V
C19	1-163-038-91	s	CERAMIC 0.1uF 25V
C20	1-163-038-91	s	CERAMIC 0.1uF 25V
C22	1-163-038-91	s	CERAMIC 0.1uF 25V
C24	1-163-038-91	s	CERAMIC 0.1uF 25V
C25	1-163-038-91	s	CERAMIC 0.1uF 25V
C26	1-163-038-91	s	CERAMIC 0.1uF 25V
C27	1-163-038-91	s	CERAMIC 0.1uF 25V
C28	1-163-038-91	s	CERAMIC 0.1uF 25V
C29	1-163-038-91	s	CERAMIC 0.1uF 25V
C30	1-163-038-91	s	CERAMIC 0.1uF 25V
C31	1-163-038-91	s	CERAMIC 0.1uF 25V
C32	1-163-038-91	s	CERAMIC 0.1uF 25V
C33	1-163-038-91	s	CERAMIC 0.1uF 25V
C34	1-163-038-91	s	CERAMIC 0.1uF 25V
C35	1-163-038-91	s	CERAMIC 0.1uF 25V
C36	1-163-038-91	s	CERAMIC 0.1uF 25V
C37	1-163-038-91	s	CERAMIC 0.1uF 25V
C38	1-163-038-91	s	CERAMIC 0.1uF 25V
C39	1-163-038-91	s	CERAMIC 0.1uF 25V
C40	1-163-038-91	s	CERAMIC 0.1uF 25V
C41	1-163-038-91	s	CERAMIC 0.1uF 25V
C42	1-163-038-91	s	CERAMIC 0.1uF 25V
C43	1-126-925-11	s	ELECT 470uF 20% 10V
C44	1-126-925-11	s	ELECT 470uF 20% 10V
C45	1-126-925-11	s	ELECT 470uF 20% 10V
C46	1-126-925-11	s	ELECT 470uF 20% 10V
C47	1-163-038-91	s	CERAMIC 0.1uF 25V
C49	1-126-925-11	s	ELECT 470uF 20% 10V
C50	1-163-038-91	s	CERAMIC 0.1uF 25V
C51	1-163-038-91	s	CERAMIC 0.1uF 25V
C52	1-163-038-91	s	CERAMIC 0.1uF 25V
D1	8-719-989-22	s	DIODE CL-150R-CD
D2	8-719-989-22	s	DIODE CL-150R-CD
E1	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
E2	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
E3	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
E4	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
IC1	8-759-578-27	s	IC IDT77155L155PX
IC2	△ 8-749-011-70	s	IC SDM4201-XC
IC3	8-759-443-54	s	IC IDT49FCT805AS0-TL

(CCM-36 BOARD (BDKP-N1001))

Ref. No. or Q'ty	Part No.	SP	Description
IC4	8-759-988-13	s	IC LM393PS
L4	1-410-369-11	s	INDUCTOR CHIP 1uH
L5	1-410-369-11	s	INDUCTOR CHIP 1uH
L6	1-410-369-11	s	INDUCTOR CHIP 1uH
L7	1-410-369-11	s	INDUCTOR CHIP 1uH
L8	1-410-369-11	s	INDUCTOR CHIP 1uH
L9	1-410-733-11	s	INDUCTOR CHIP 0.22uH
Q1	8-729-900-53	s	TRANSISTOR DTC114EK
R1	1-216-623-11	s	METAL, CHIP 68 0.5% 1/10W
R2	1-216-634-11	s	METAL, CHIP 200 0.5% 1/10W
R3	1-216-623-11	s	METAL, CHIP 68 0.5% 1/10W
R4	1-216-634-11	s	METAL, CHIP 200 0.5% 1/10W
R5	1-216-620-11	s	METAL, CHIP 51 0.5% 1/10W
R6	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R7	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R8	1-216-630-11	s	METAL, CHIP 130 0.5% 1/10W
R9	1-216-635-11	s	METAL, CHIP 220 0.5% 1/10W
R10	1-216-625-11	s	METAL, CHIP 82 0.5% 1/10W
R11	1-216-630-11	s	METAL, CHIP 130 0.5% 1/10W
R12	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R13	1-216-295-91	s	RES, CHIP 0
R14	1-216-620-11	s	METAL, CHIP 51 0.5% 1/10W
R15	1-216-295-91	s	RES, CHIP 0
R16	1-216-295-91	s	RES, CHIP 0
R17	1-216-295-91	s	RES, CHIP 0
R18	1-216-295-91	s	RES, CHIP 0
R19	1-216-295-91	s	RES, CHIP 0
R22	1-216-675-91	s	METAL 10K 0.50% 1/10W
R23	1-216-675-91	s	METAL 10K 0.50% 1/10W
R24	1-216-675-91	s	METAL 10K 0.50% 1/10W
R25	1-216-675-91	s	METAL 10K 0.50% 1/10W
R26	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R27	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R28	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R29	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R30	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R35	1-216-675-91	s	METAL 10K 0.50% 1/10W
R38	1-216-298-00	s	METAL 2.2 5% 1/10W
R39	1-216-298-00	s	METAL 2.2 5% 1/10W
R41	1-217-671-11	s	METAL, CHIP 1 5% 1/10W
R42	1-217-671-11	s	METAL, CHIP 1 5% 1/10W
R43	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R44	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R47	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R48	1-216-646-11	s	METAL, CHIP 620 0.5% 1/10W
R49	1-216-657-11	s	METAL, CHIP 1.8K 0.5% 1/10W
R50	1-216-295-91	s	RES, CHIP 0
R51	1-216-295-91	s	RES, CHIP 0
S1	1-692-535-11	s	SWITCH, DIP 4-CKT
X1	1-767-727-11	s	OSCILLATOR, CRYSTAL

CCM-36A BOARD (BDKP-N1002)

Ref. No. or Q'ty	Part No.	SP Description
C1	1-163-038-91	s CERAMIC 0.1uF 25V
C2	1-126-925-11	s ELECT 470uF 20% 10V
C3	1-163-038-91	s CERAMIC 0.1uF 25V
C4	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C5	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C6	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C7	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C8	1-163-038-91	s CERAMIC 0.1uF 25V
C9	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C10	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C11	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C12	1-163-038-91	s CERAMIC 0.1uF 25V
C13	1-163-038-91	s CERAMIC 0.1uF 25V
C14	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C15	1-163-009-11	s CERAMIC, CHIP 0.001uF 10% 50V
C16	1-163-038-91	s CERAMIC 0.1uF 25V
C17	1-163-038-91	s CERAMIC 0.1uF 25V
C18	1-126-392-11	s ELECT, CHIP 100uF 20% 6.3V
C19	1-163-038-91	s CERAMIC 0.1uF 25V
C20	1-163-038-91	s CERAMIC 0.1uF 25V
C22	1-163-038-91	s CERAMIC 0.1uF 25V
C24	1-163-038-91	s CERAMIC 0.1uF 25V
C25	1-163-038-91	s CERAMIC 0.1uF 25V
C26	1-163-038-91	s CERAMIC 0.1uF 25V
C27	1-163-038-91	s CERAMIC 0.1uF 25V
C28	1-163-038-91	s CERAMIC 0.1uF 25V
C29	1-163-038-91	s CERAMIC 0.1uF 25V
C30	1-163-038-91	s CERAMIC 0.1uF 25V
C31	1-163-038-91	s CERAMIC 0.1uF 25V
C32	1-163-038-91	s CERAMIC 0.1uF 25V
C33	1-163-038-91	s CERAMIC 0.1uF 25V
C34	1-163-038-91	s CERAMIC 0.1uF 25V
C35	1-163-038-91	s CERAMIC 0.1uF 25V
C36	1-163-038-91	s CERAMIC 0.1uF 25V
C37	1-163-038-91	s CERAMIC 0.1uF 25V
C38	1-163-038-91	s CERAMIC 0.1uF 25V
C39	1-163-038-91	s CERAMIC 0.1uF 25V
C40	1-163-038-91	s CERAMIC 0.1uF 25V
C41	1-163-038-91	s CERAMIC 0.1uF 25V
C42	1-163-038-91	s CERAMIC 0.1uF 25V
C43	1-126-925-11	s ELECT 470uF 20% 10V
C44	1-126-925-11	s ELECT 470uF 20% 10V
C45	1-126-925-11	s ELECT 470uF 20% 10V
C46	1-126-925-11	s ELECT 470uF 20% 10V
C47	1-163-038-91	s CERAMIC 0.1uF 25V
C49	1-126-925-11	s ELECT 470uF 20% 10V
C50	1-163-038-91	s CERAMIC 0.1uF 25V
C51	1-163-038-91	s CERAMIC 0.1uF 25V
C52	1-163-038-91	s CERAMIC 0.1uF 25V
D1	8-719-989-22	s DIODE CL-150R-CD
D2	8-719-989-22	s DIODE CL-150R-CD
E1	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E2	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E3	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E4	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
IC1	8-759-578-27	s IC IDT77155L155PX
IC2	△ 8-749-012-62	s IC SDM7201-XC
IC3	8-759-443-54	s IC IDT49FCT805AS0-TL

(CCM-36A BOARD (BDKP-N1002))

Ref. No. or Q'ty	Part No.	SP Description
IC4	8-759-988-13	s IC LM393PS
L4	1-410-369-11	s INDUCTOR CHIP 1uH
L5	1-410-369-11	s INDUCTOR CHIP 1uH
L6	1-410-369-11	s INDUCTOR CHIP 1uH
L7	1-410-369-11	s INDUCTOR CHIP 1uH
L8	1-410-369-11	s INDUCTOR CHIP 1uH
L9	1-410-733-11	s INDUCTOR CHIP 0.22uH
Q1	8-729-900-53	s TRANSISTOR DTC114EK
R1	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R2	1-216-634-11	s METAL, CHIP 200 0.5% 1/10W
R3	1-216-623-11	s METAL, CHIP 68 0.5% 1/10W
R4	1-216-634-11	s METAL, CHIP 200 0.5% 1/10W
R5	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R6	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R7	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R8	1-216-630-11	s METAL, CHIP 130 0.5% 1/10W
R9	1-216-635-11	s METAL, CHIP 220 0.5% 1/10W
R10	1-216-625-11	s METAL, CHIP 82 0.5% 1/10W
R11	1-216-630-11	s METAL, CHIP 130 0.5% 1/10W
R12	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R13	1-216-295-91	s RES, CHIP 0
R14	1-216-620-11	s METAL, CHIP 51 0.5% 1/10W
R15	1-216-295-91	s RES, CHIP 0
R16	1-216-295-91	s RES, CHIP 0
R17	1-216-295-91	s RES, CHIP 0
R18	1-216-295-91	s RES, CHIP 0
R19	1-216-295-91	s RES, CHIP 0
R22	1-216-675-91	s METAL 10K 0.50% 1/10W
R23	1-216-675-91	s METAL 10K 0.50% 1/10W
R24	1-216-675-91	s METAL 10K 0.50% 1/10W
R25	1-216-675-91	s METAL 10K 0.50% 1/10W
R26	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R27	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R28	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R29	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R30	1-216-627-11	s METAL, CHIP 100 0.5% 1/10W
R35	1-216-675-91	s METAL 10K 0.50% 1/10W
R38	1-216-298-00	s METAL 2.2 5% 1/10W
R39	1-216-298-00	s METAL 2.2 5% 1/10W
R41	1-217-671-11	s METAL, CHIP 1 5% 1/10W
R42	1-217-671-11	s METAL, CHIP 1 5% 1/10W
R43	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R44	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R47	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R48	1-216-646-11	s METAL, CHIP 620 0.5% 1/10W
R49	1-216-657-11	s METAL, CHIP 1.8K 0.5% 1/10W
R50	1-216-295-91	s RES, CHIP 0
R51	1-216-295-91	s RES, CHIP 0
S1	1-692-535-11	s SWITCH, DIP 4-CKT
X1	1-767-727-11	s OSCILLATOR, CRYSTAL

CCM-40 BOARD (BDKP-N1003)

Ref. No. or Q'ty	Part No.	SP	Description
C100	1-163-275-11	s	CERAMIC, CHIP 0.001uF 5% 50V
C101	1-163-038-91	s	CERAMIC 0.1uF 25V
C102	1-163-112-00	s	CERAMIC, CHIP 62PF 5% 50V
C103	1-163-231-11	s	CERAMIC 15PF 5% 50V
C104	1-163-021-91	s	CERAMIC 0.01uF 10% 50V
C105	1-163-038-91	s	CERAMIC 0.1uF 25V
C106	1-163-220-11	s	CERAMIC, CHIP 3PF 50V
C107	1-163-038-91	s	CERAMIC 0.1uF 25V
C108	1-163-038-91	s	CERAMIC 0.1uF 25V
C109	1-163-037-11	s	CERAMIC, CHIP 0.022uF 10% 25V
C110	1-163-038-91	s	CERAMIC 0.1uF 25V
C111	1-163-038-91	s	CERAMIC 0.1uF 25V
C112	1-135-072-21	s	TANTALUM, CHIP 0.22uF 10% 35V
C113	1-163-038-91	s	CERAMIC 0.1uF 25V
C114	1-163-038-91	s	CERAMIC 0.1uF 25V
C115	1-163-038-91	s	CERAMIC 0.1uF 25V
C116	1-163-038-91	s	CERAMIC 0.1uF 25V
C117	1-163-038-91	s	CERAMIC 0.1uF 25V
C118	1-163-038-91	s	CERAMIC 0.1uF 25V
C119	1-126-925-11	s	ELECT 470uF 20% 10V
C120	1-163-038-91	s	CERAMIC 0.1uF 25V
C121	1-163-038-91	s	CERAMIC 0.1uF 25V
C122	1-163-038-91	s	CERAMIC 0.1uF 25V
C123	1-126-925-11	s	ELECT 470uF 20% 10V
C200	1-163-038-91	s	CERAMIC 0.1uF 25V
C201	1-163-038-91	s	CERAMIC 0.1uF 25V
C202	1-163-038-91	s	CERAMIC 0.1uF 25V
C203	1-163-038-91	s	CERAMIC 0.1uF 25V
C204	1-163-038-91	s	CERAMIC 0.1uF 25V
CN2	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN3	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
D100	8-719-989-22	s	DIODE CL-150R-CD
D101	8-719-989-22	s	DIODE CL-150R-CD
E100	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
E101	1-535-881-21	o	TERMINAL, TP (AUTO INSERTION)
IC100	8-759-578-01	s	IC 78P7200-IH
IC101	8-759-443-54	s	IC IDT49FCT805AS0-TL
IC102	8-759-578-00	s	IC PM7345-RI
IC103	8-759-988-13	s	IC LM393PS
IC201	--PENDING---	o	IC EPC1PC8, EPROM
IS201	1-526-652-21	s	SOCKET, IC 8P
L100	1-410-737-31	s	INDUCTOR CHIP 0.47uH
L101	1-410-379-31	s	INDUCTOR CHIP 6.8uH
L102	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L103	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L104	1-410-369-11	s	INDUCTOR CHIP 1uH
L105	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
L106	1-410-377-31	s	INDUCTOR, CHIP 4.7uH
Q100	8-729-900-53	s	TRANSISTOR DTC114EK
R100	1-216-295-91	s	RES, CHIP 0
R101	1-216-295-91	s	RES, CHIP 0
R102	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R103	1-216-624-11	s	METAL, CHIP 75 0.5% 1/10W
R104	1-216-295-91	s	RES, CHIP 0

(CCM-40 BOARD (BDKP-N1003))

Ref. No. or Q'ty	Part No.	SP	Description
R105	1-216-638-11	s	METAL, CHIP 300 0.5% 1/10W
R107	1-216-615-91	s	METAL 33 0.50% 1/10W
R108	1-216-641-11	s	METAL, CHIP 390 0.5% 1/10W
R109	1-216-675-91	s	METAL 10K 0.50% 1/10W
R110	1-216-629-11	s	METAL, CHIP 120 0.5% 1/10W
R111	1-216-675-91	s	METAL 10K 0.50% 1/10W
R112	1-216-668-11	s	METAL, CHIP 5.1K 0.5% 1/10W
R113	1-216-675-91	s	METAL 10K 0.50% 1/10W
R114	1-216-675-91	s	METAL 10K 0.50% 1/10W
R115	1-216-675-91	s	METAL 10K 0.50% 1/10W
R116	1-216-675-91	s	METAL 10K 0.50% 1/10W
R117	1-216-675-91	s	METAL 10K 0.50% 1/10W
R118	1-216-675-91	s	METAL 10K 0.50% 1/10W
R119	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R121	1-216-675-91	s	METAL 10K 0.50% 1/10W
R122	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R123	1-216-675-91	s	METAL 10K 0.50% 1/10W
R124	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R125	1-216-642-11	s	METAL, CHIP 430 0.5% 1/10W
R126	1-216-669-11	s	METAL, CHIP 5.6K 0.5% 1/10W
R127	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R128	1-216-295-91	s	RES, CHIP 0
R129	1-216-675-91	s	METAL 10K 0.50% 1/10W
R130	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R131	1-216-659-11	s	METAL, CHIP 2.2K 0.5% 1/10W
R132	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R133	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R134	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R135	1-216-675-91	s	METAL 10K 0.50% 1/10W
R136	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R200	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R201	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R202	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R203	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R204	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R205	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R206	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R207	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R208	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
S100	1-692-536-11	s	SWITCH, DIP 8-CKT
T100	1-435-064-11	s	TRANSFORMER, PULSE
T101	1-435-064-11	s	TRANSFORMER, PULSE
X1	1-781-315-21	s	OSCILLATOR, CRYSTAL

CCM-40A BOARD (BDKP-N1004)

Ref. No. or Q'ty	Part No.	SP Description
C100	1-163-275-11	s CERAMIC, CHIP 0.001uF 5% 50V
C101	1-163-038-91	s CERAMIC 0.1uF 25V
C102	1-163-112-00	s CERAMIC, CHIP 62PF 5% 50V
C103	1-163-220-11	s CERAMIC, CHIP 3PF 50V
C104	1-163-021-91	s CERAMIC 0.01uF 10% 50V
C105	1-163-038-91	s CERAMIC 0.1uF 25V
C106	1-163-220-11	s CERAMIC, CHIP 3PF 50V
C107	1-163-038-91	s CERAMIC 0.1uF 25V
C108	1-163-038-91	s CERAMIC 0.1uF 25V
C109	1-163-037-11	s CERAMIC, CHIP 0.022uF 10% 25V
C110	1-163-038-91	s CERAMIC 0.1uF 25V
C111	1-163-038-91	s CERAMIC 0.1uF 25V
C112	1-135-072-21	s TANTALUM, CHIP 0.22uF 10% 35V
C113	1-163-038-91	s CERAMIC 0.1uF 25V
C114	1-163-038-91	s CERAMIC 0.1uF 25V
C115	1-163-038-91	s CERAMIC 0.1uF 25V
C116	1-163-038-91	s CERAMIC 0.1uF 25V
C117	1-163-038-91	s CERAMIC 0.1uF 25V
C118	1-163-038-91	s CERAMIC 0.1uF 25V
C119	1-126-925-11	s ELECT 470uF 20% 10V
C120	1-163-038-91	s CERAMIC 0.1uF 25V
C121	1-163-038-91	s CERAMIC 0.1uF 25V
C122	1-163-038-91	s CERAMIC 0.1uF 25V
C123	1-126-925-11	s ELECT 470uF 20% 10V
C200	1-163-038-91	s CERAMIC 0.1uF 25V
C201	1-163-038-91	s CERAMIC 0.1uF 25V
C202	1-163-038-91	s CERAMIC 0.1uF 25V
C203	1-163-038-91	s CERAMIC 0.1uF 25V
C204	1-163-038-91	s CERAMIC 0.1uF 25V
CN2	1-764-273-11	s CONNECTOR, COAXIAL (BNC TYPE)
CN3	1-764-273-11	s CONNECTOR, COAXIAL (BNC TYPE)
D100	8-719-989-22	s DIODE CL-150R-CD
D101	8-719-989-22	s DIODE CL-150R-CD
E100	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E101	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
IC100	8-759-578-01	s IC 78P7200-IH
IC101	8-759-443-54	s IC IDT49FCT805ASO-TL
IC102	8-759-578-00	s IC PM7345-RI
IC103	8-759-988-13	s IC LM393PS
IC201	--PENDING---	o IC EPC1PC8, EPROM
IS201	1-526-652-21	s SOCKET, IC 8P
L100	1-410-737-31	s INDUCTOR CHIP 0.47uH
L101	1-410-379-31	s INDUCTOR CHIP 6.8uH
L102	1-410-377-31	s INDUCTOR, CHIP 4.7uH
L103	1-410-377-31	s INDUCTOR, CHIP 4.7uH
L104	1-410-369-11	s INDUCTOR CHIP 1uH
L105	1-410-377-31	s INDUCTOR, CHIP 4.7uH
L106	1-410-377-31	s INDUCTOR, CHIP 4.7uH
Q100	8-729-900-53	s TRANSISTOR DTC114EK
R100	1-216-295-91	s RES, CHIP 0
R101	1-216-295-91	s RES, CHIP 0
R102	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R103	1-216-624-11	s METAL, CHIP 75 0.5% 1/10W
R104	1-216-618-11	s METAL, CHIP 43 0.50% 1/10W

(CCM-40A BOARD (BDKP-N1004))

Ref. No. or Q'ty	Part No.	SP Description
R105	1-216-645-11	s METAL, CHIP 560 0.5% 1/10W
R107	1-216-615-91	s METAL 33 0.50% 1/10W
R108	1-216-641-11	s METAL, CHIP 390 0.5% 1/10W
R109	1-216-675-91	s METAL 10K 0.50% 1/10W
R110	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R111	1-216-675-91	s METAL 10K 0.50% 1/10W
R112	1-216-671-11	s METAL, CHIP 6.8K 0.5% 1/10W
R113	1-216-675-91	s METAL 10K 0.50% 1/10W
R114	1-216-675-91	s METAL 10K 0.50% 1/10W
R115	1-216-675-91	s METAL 10K 0.50% 1/10W
R116	1-216-675-91	s METAL 10K 0.50% 1/10W
R117	1-216-675-91	s METAL 10K 0.50% 1/10W
R118	1-216-675-91	s METAL 10K 0.50% 1/10W
R119	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R121	1-216-675-91	s METAL 10K 0.50% 1/10W
R122	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R123	1-216-675-91	s METAL 10K 0.50% 1/10W
R124	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R125	1-216-642-11	s METAL, CHIP 430 0.5% 1/10W
R126	1-216-669-11	s METAL, CHIP 5.6K 0.5% 1/10W
R127	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R128	1-216-295-91	s RES, CHIP 0
R129	1-216-675-91	s METAL 10K 0.50% 1/10W
R130	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R131	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R132	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R133	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R134	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R135	1-216-675-91	s METAL 10K 0.50% 1/10W
R136	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R200	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R201	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R202	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R203	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R204	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R205	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R206	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R207	1-216-603-11	s METAL, CHIP 10 0.5% 1/10W
R208	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
S100	1-692-536-11	s SWITCH, DIP 8-CKT
T100	1-435-064-11	s TRANSFORMER, PULSE
T101	1-435-064-11	s TRANSFORMER, PULSE
X1	1-781-316-21	s OSCILLATOR, CRYSTAL

 DP-131 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	1-636-210-11	o PRINTED CIRCUIT BOARD, DP-131
CN1	1-564-002-11	s CONNECTOR 3P, MALE
D1	8-719-921-06	s LED HLMP-2965, RED
R1	1-249-403-11	s CARBON 68 5% 1/4W
R2	1-249-403-11	s CARBON 68 5% 1/4W
R3	1-249-403-11	s CARBON 68 5% 1/4W
R4	1-249-403-11	s CARBON 68 5% 1/4W

 DP-270 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8321-427-A	o MOUNTED CIRCUIT BOARD, DP-270
C110	1-163-038-91	s CERAMIC 0.1uF 25V
C111	1-104-665-11	s ELECT 100uF 20% 10V
CN100	1-565-845-11	o CONNECTOR, 26P, MALE
IC100	8-759-057-01	s IC HDSP-2111
R100	1-216-675-91	s METAL 10K 0.50% 1/10W
R101	1-216-675-91	s METAL 10K 0.50% 1/10W
R102	1-216-675-91	s METAL 10K 0.50% 1/10W
R103	1-216-675-91	s METAL 10K 0.50% 1/10W
R104	1-216-675-91	s METAL 10K 0.50% 1/10W
R105	1-216-675-91	s METAL 10K 0.50% 1/10W
R106	1-216-675-91	s METAL 10K 0.50% 1/10W
R107	1-216-675-91	s METAL 10K 0.50% 1/10W
R108	1-216-675-91	s METAL 10K 0.50% 1/10W
R109	1-216-675-91	s METAL 10K 0.50% 1/10W
R110	1-216-675-91	s METAL 10K 0.50% 1/10W
R111	1-216-675-91	s METAL 10K 0.50% 1/10W
R112	1-216-675-91	s METAL 10K 0.50% 1/10W
R113	1-216-675-91	s METAL 10K 0.50% 1/10W
R114	1-216-675-91	s METAL 10K 0.50% 1/10W
R115	1-216-675-91	s METAL 10K 0.50% 1/10W
R116	1-216-675-91	s METAL 10K 0.50% 1/10W
R117	1-216-675-91	s METAL 10K 0.50% 1/10W

 DP-271 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8321-428-A	o MOUNTED CIRCUIT BOARD, DP-271
1pc	3-616-647-02	o HOLDER, LED
2pcs	7-682-548-04	s SCREW +B 3X8
CN100	1-506-489-11	s CONNECTOR 10P, MALE
LED100	8-719-920-55	s DIODE SPR-54MVW
LED101	8-719-920-55	s DIODE SPR-54MVW
LED102	8-719-920-55	s DIODE SPR-54MVW
R100	1-216-622-91	s METAL 62 0.50% 1/10W
R101	1-216-622-91	s METAL 62 0.50% 1/10W
R102	1-216-622-91	s METAL 62 0.50% 1/10W
R103	1-216-622-91	s METAL 62 0.50% 1/10W
R104	1-216-622-91	s METAL 62 0.50% 1/10W
R105	1-216-622-91	s METAL 62 0.50% 1/10W

IF-694 BOARD

Ref. No. or Q'ty	Part No.	SP Description
1pc	A-8321-437-A	o MOUNTED CIRCUIT BOARD, IF-694
4pcs	7-628-254-30	s SCREW +PS 2.6X10
4pcs	7-622-207-05	s N 2.6, TYPE 2
1pc	1-767-156-11	s OSCILLATOR, CRYSTAL
4pcs	4-924-260-01	o BOSS (D)
4pcs	7-684-023-04	s N 3, TYPE 2
C100	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C101	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C102	1-163-038-91	s CERAMIC 0.1uF 25V
C103	1-163-038-91	s CERAMIC 0.1uF 25V
C104	1-163-038-91	s CERAMIC 0.1uF 25V
C105	1-163-038-91	s CERAMIC 0.1uF 25V
C106	1-163-038-91	s CERAMIC 0.1uF 25V
C107	1-163-038-91	s CERAMIC 0.1uF 25V
C108	1-163-038-91	s CERAMIC 0.1uF 25V
C200	1-163-038-91	s CERAMIC 0.1uF 25V
C201	1-163-038-91	s CERAMIC 0.1uF 25V
C202	1-163-038-91	s CERAMIC 0.1uF 25V
C203	1-163-038-91	s CERAMIC 0.1uF 25V
C204	1-163-038-91	s CERAMIC 0.1uF 25V
C205	1-163-038-91	s CERAMIC 0.1uF 25V
C206	1-163-038-91	s CERAMIC 0.1uF 25V
C207	1-163-038-91	s CERAMIC 0.1uF 25V
C300	1-163-038-91	s CERAMIC 0.1uF 25V
C301	1-163-038-91	s CERAMIC 0.1uF 25V
C302	1-163-038-91	s CERAMIC 0.1uF 25V
C303	1-163-038-91	s CERAMIC 0.1uF 25V
C304	1-163-038-91	s CERAMIC 0.1uF 25V
C305	1-163-038-91	s CERAMIC 0.1uF 25V
C306	1-163-038-91	s CERAMIC 0.1uF 25V
C307	1-163-233-11	s CERAMIC 18PF 5% 50V
C308	1-163-038-91	s CERAMIC 0.1uF 25V
C309	1-126-968-11	s ELECT 100uF 20% 50V
C400	1-163-038-91	s CERAMIC 0.1uF 25V
C401	1-163-038-91	s CERAMIC 0.1uF 25V
C402	1-163-038-91	s CERAMIC 0.1uF 25V
C403	1-163-038-91	s CERAMIC 0.1uF 25V
C404	1-163-038-91	s CERAMIC 0.1uF 25V
C405	1-163-038-91	s CERAMIC 0.1uF 25V
C406	1-163-038-91	s CERAMIC 0.1uF 25V
C407	1-163-038-91	s CERAMIC 0.1uF 25V
C408	1-163-038-91	s CERAMIC 0.1uF 25V
C409	1-163-038-91	s CERAMIC 0.1uF 25V
C410	1-163-038-91	s CERAMIC 0.1uF 25V
C411	1-163-038-91	s CERAMIC 0.1uF 25V
C412	1-163-038-91	s CERAMIC 0.1uF 25V
C413	1-163-038-91	s CERAMIC 0.1uF 25V
C414	1-163-038-91	s CERAMIC 0.1uF 25V
C415	1-163-038-91	s CERAMIC 0.1uF 25V
C500	1-163-038-91	s CERAMIC 0.1uF 25V
C501	1-163-038-91	s CERAMIC 0.1uF 25V
C502	1-163-038-91	s CERAMIC 0.1uF 25V
C503	1-163-038-91	s CERAMIC 0.1uF 25V
C504	1-163-038-91	s CERAMIC 0.1uF 25V
C505	1-163-038-91	s CERAMIC 0.1uF 25V
C506	1-163-038-91	s CERAMIC 0.1uF 25V
C507	1-163-038-91	s CERAMIC 0.1uF 25V
C508	1-163-038-91	s CERAMIC 0.1uF 25V

(IF-694 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
C509	1-163-038-91	s CERAMIC 0.1uF 25V
C510	1-163-038-91	s CERAMIC 0.1uF 25V
C511	1-163-038-91	s CERAMIC 0.1uF 25V
C512	1-163-038-91	s CERAMIC 0.1uF 25V
C513	1-163-038-91	s CERAMIC 0.1uF 25V
C514	1-163-038-91	s CERAMIC 0.1uF 25V
C515	1-163-038-91	s CERAMIC 0.1uF 25V
C516	1-163-038-91	s CERAMIC 0.1uF 25V
C517	1-163-038-91	s CERAMIC 0.1uF 25V
C518	1-163-038-91	s CERAMIC 0.1uF 25V
C519	1-163-038-91	s CERAMIC 0.1uF 25V
C520	1-163-038-91	s CERAMIC 0.1uF 25V
C521	1-163-038-91	s CERAMIC 0.1uF 25V
C522	1-163-038-91	s CERAMIC 0.1uF 25V
C523	1-163-038-91	s CERAMIC 0.1uF 25V
C524	1-163-038-91	s CERAMIC 0.1uF 25V
C525	1-163-038-91	s CERAMIC 0.1uF 25V
C526	1-163-038-91	s CERAMIC 0.1uF 25V
C600	1-163-038-91	s CERAMIC 0.1uF 25V
C601	1-163-038-91	s CERAMIC 0.1uF 25V
C602	1-163-038-91	s CERAMIC 0.1uF 25V
C603	1-163-038-91	s CERAMIC 0.1uF 25V
C604	1-163-038-91	s CERAMIC 0.1uF 25V
C605	1-163-038-91	s CERAMIC 0.1uF 25V
C606	1-163-038-91	s CERAMIC 0.1uF 25V
C607	1-126-394-11	s ELECT, CHIP 10uF 20% 16V
C608	1-163-038-91	s CERAMIC 0.1uF 25V
C609	1-163-038-91	s CERAMIC 0.1uF 25V
C610	1-163-038-91	s CERAMIC 0.1uF 25V
C611	1-163-038-91	s CERAMIC 0.1uF 25V
C612	1-163-038-91	s CERAMIC 0.1uF 25V
C613	1-163-038-91	s CERAMIC 0.1uF 25V
C614	1-163-038-91	s CERAMIC 0.1uF 25V
C615	1-163-038-91	s CERAMIC 0.1uF 25V
C616	1-163-038-91	s CERAMIC 0.1uF 25V
C617	1-163-038-91	s CERAMIC 0.1uF 25V
C618	1-163-038-91	s CERAMIC 0.1uF 25V
C619	1-163-038-91	s CERAMIC 0.1uF 25V
C620	1-163-038-91	s CERAMIC 0.1uF 25V
C621	1-163-038-91	s CERAMIC 0.1uF 25V
C622	1-163-038-91	s CERAMIC 0.1uF 25V
C700	1-163-038-91	s CERAMIC 0.1uF 25V
C701	1-163-038-91	s CERAMIC 0.1uF 25V
C702	1-163-038-91	s CERAMIC 0.1uF 25V
C703	1-163-038-91	s CERAMIC 0.1uF 25V
C704	1-163-038-91	s CERAMIC 0.1uF 25V
C705	1-163-038-91	s CERAMIC 0.1uF 25V
C706	1-163-038-91	s CERAMIC 0.1uF 25V
C707	1-163-038-91	s CERAMIC 0.1uF 25V
C708	1-163-038-91	s CERAMIC 0.1uF 25V
C709	1-163-038-91	s CERAMIC 0.1uF 25V
C710	1-163-038-91	s CERAMIC 0.1uF 25V
C711	1-163-038-91	s CERAMIC 0.1uF 25V
C712	1-163-038-91	s CERAMIC 0.1uF 25V
C713	1-163-038-91	s CERAMIC 0.1uF 25V
C714	1-163-038-91	s CERAMIC 0.1uF 25V
C715	1-163-038-91	s CERAMIC 0.1uF 25V
C716	1-163-038-91	s CERAMIC 0.1uF 25V
C717	1-163-038-91	s CERAMIC 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C1642	1-163-038-91	s	CERAMIC 0.1uF 25V
C1643	1-163-038-91	s	CERAMIC 0.1uF 25V
C1644	1-163-038-91	s	CERAMIC 0.1uF 25V
C1645	1-163-038-91	s	CERAMIC 0.1uF 25V
C1646	1-163-038-91	s	CERAMIC 0.1uF 25V
C1647	1-163-038-91	s	CERAMIC 0.1uF 25V
C1648	1-163-038-91	s	CERAMIC 0.1uF 25V
C1649	1-163-038-91	s	CERAMIC 0.1uF 25V
C1650	1-163-038-91	s	CERAMIC 0.1uF 25V
C1651	1-163-038-91	s	CERAMIC 0.1uF 25V
C1652	1-163-038-91	s	CERAMIC 0.1uF 25V
C1653	1-163-038-91	s	CERAMIC 0.1uF 25V
C1654	1-163-038-91	s	CERAMIC 0.1uF 25V
C1655	1-163-038-91	s	CERAMIC 0.1uF 25V
C1656	1-163-038-91	s	CERAMIC 0.1uF 25V
C1657	1-163-038-91	s	CERAMIC 0.1uF 25V
C1658	1-163-038-91	s	CERAMIC 0.1uF 25V
C1659	1-163-038-91	s	CERAMIC 0.1uF 25V
C1660	1-163-038-91	s	CERAMIC 0.1uF 25V
C1661	1-163-038-91	s	CERAMIC 0.1uF 25V
C1662	1-163-038-91	s	CERAMIC 0.1uF 25V
C1663	1-163-038-91	s	CERAMIC 0.1uF 25V
C1664	1-163-038-91	s	CERAMIC 0.1uF 25V
C1665	1-163-038-91	s	CERAMIC 0.1uF 25V
C1666	1-126-968-11	s	ELECT 100uF 20% 50V
C1667	1-126-968-11	s	ELECT 100uF 20% 50V
C1668	1-126-968-11	s	ELECT 100uF 20% 50V
C1669	1-126-968-11	s	ELECT 100uF 20% 50V
C1670	1-126-968-11	s	ELECT 100uF 20% 50V
C1671	1-126-968-11	s	ELECT 100uF 20% 50V
C1672	1-126-968-11	s	ELECT 100uF 20% 50V
C1673	1-126-968-11	s	ELECT 100uF 20% 50V
C1674	1-163-038-91	s	CERAMIC 0.1uF 25V
C1700	1-163-038-91	s	CERAMIC 0.1uF 25V
C1701	1-163-038-91	s	CERAMIC 0.1uF 25V
C1702	1-163-038-91	s	CERAMIC 0.1uF 25V
C1703	1-163-038-91	s	CERAMIC 0.1uF 25V
C1704	1-163-038-91	s	CERAMIC 0.1uF 25V
C1705	1-163-038-91	s	CERAMIC 0.1uF 25V
C1706	1-163-038-91	s	CERAMIC 0.1uF 25V
C1707	1-163-038-91	s	CERAMIC 0.1uF 25V
C1708	1-163-038-91	s	CERAMIC 0.1uF 25V
C5100	1-163-038-91	s	CERAMIC 0.1uF 25V
C5101	1-163-038-91	s	CERAMIC 0.1uF 25V
C5102	1-163-038-91	s	CERAMIC 0.1uF 25V
C5103	1-163-038-91	s	CERAMIC 0.1uF 25V
C5104	1-163-038-91	s	CERAMIC 0.1uF 25V
C5105	1-163-038-91	s	CERAMIC 0.1uF 25V
C5106	1-163-038-91	s	CERAMIC 0.1uF 25V
C5107	1-163-038-91	s	CERAMIC 0.1uF 25V
C5108	1-163-038-91	s	CERAMIC 0.1uF 25V
C5109	1-163-038-91	s	CERAMIC 0.1uF 25V
C5110	1-163-038-91	s	CERAMIC 0.1uF 25V
C5111	1-163-038-91	s	CERAMIC 0.1uF 25V
C5112	1-163-038-91	s	CERAMIC 0.1uF 25V
C5113	1-163-038-91	s	CERAMIC 0.1uF 25V
C5114	1-163-038-91	s	CERAMIC 0.1uF 25V
C5115	1-163-038-91	s	CERAMIC 0.1uF 25V
C5117	1-163-038-91	s	CERAMIC 0.1uF 25V

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Ref. No. or Q'ty	Part No.	SP	Description
C5200	1-163-038-91	s	CERAMIC 0.1uF 25V
C5201	1-163-038-91	s	CERAMIC 0.1uF 25V
C5202	1-163-038-91	s	CERAMIC 0.1uF 25V
C5203	1-163-038-91	s	CERAMIC 0.1uF 25V
C6000	1-163-038-91	s	CERAMIC 0.1uF 25V
C6100	1-163-038-91	s	CERAMIC 0.1uF 25V
C6101	1-163-038-91	s	CERAMIC 0.1uF 25V
C6102	1-163-038-91	s	CERAMIC 0.1uF 25V
C6103	1-163-038-91	s	CERAMIC 0.1uF 25V
C6104	1-163-038-91	s	CERAMIC 0.1uF 25V
C6700	1-163-038-91	s	CERAMIC 0.1uF 25V
C6701	1-163-038-91	s	CERAMIC 0.1uF 25V
C6702	1-163-038-91	s	CERAMIC 0.1uF 25V
C6703	1-163-038-91	s	CERAMIC 0.1uF 25V
CN4	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN5	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN100	1-506-468-11	o	CONNECTOR 3P, MALE
CN101	1-506-468-11	o	CONNECTOR 3P, MALE
CN103	1-573-566-11	s	CONNECTOR, D-SUB 9P, FEMALE
CN104	1-573-566-11	s	CONNECTOR, D-SUB 9P, FEMALE
CN200	1-506-475-11	o	CONNECTOR 10P, MALE
CN201	1-565-845-11	o	CONNECTOR, 26P, MALE
CN300	1-784-825-11	s	JACK, MODULAR
CN500	1-566-311-11	s	CONNECTOR, 10P, MALE
CN600	1-566-311-11	s	CONNECTOR, 10P, MALE
CN800	1-764-273-11	s	CONNECTOR, COAXIAL (BNC TYPE)
CN900	1-566-311-11	s	CONNECTOR, 10P, MALE
CN1000	1-566-311-11	s	CONNECTOR, 10P, MALE
CN1100	1-566-311-11	s	CONNECTOR, 10P, MALE
CN1300	1-540-216-11	s	CONNECTOR, IC CARD 68P
CN1400	1-566-311-11	s	CONNECTOR, 10P, MALE
CN1500	1-566-311-11	s	CONNECTOR, 10P, MALE
CN1600	1-580-838-11	o	PIN, CONNECTOR (PC BOARD) 4P
D100	8-719-801-48	s	DIODE 1SS193
D101	8-719-801-48	s	DIODE 1SS193
D300	8-719-987-43	s	DIODE CL-150PG-CD
D301	8-719-987-43	s	DIODE CL-150PG-CD
D500	8-719-987-43	s	DIODE CL-150PG-CD
D501	8-719-987-43	s	DIODE CL-150PG-CD
D600	8-719-990-35	s	DIODE 555-2403
D601	8-719-990-34	s	DIODE 555-2303
D602	8-719-990-09	s	DIODE 555-4303
D603	8-719-990-09	s	DIODE 555-4303
D800	8-719-055-76	s	DIODE 1N4148
D900	8-719-987-43	s	DIODE CL-150PG-CD
D901	8-719-987-43	s	DIODE CL-150PG-CD
D1000	8-719-987-43	s	DIODE CL-150PG-CD
D1001	8-719-987-43	s	DIODE CL-150PG-CD
D1002	8-719-987-43	s	DIODE CL-150PG-CD
D1003	8-719-987-43	s	DIODE CL-150PG-CD
D1100	8-719-989-22	s	DIODE CL-150R-CD
D1101	8-719-989-22	s	DIODE CL-150R-CD
D1102	8-719-989-22	s	DIODE CL-150R-CD
D1103	8-719-989-22	s	DIODE CL-150R-CD
D1400	8-719-987-43	s	DIODE CL-150PG-CD
D1401	8-719-987-43	s	DIODE CL-150PG-CD
D1402	8-719-987-43	s	DIODE CL-150PG-CD
D1403	8-719-987-43	s	DIODE CL-150PG-CD

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Ref. No. or Q'ty	Part No.	SP Description
D1500	8-719-987-43	s DIODE CL-150PG-CD
D1501	8-719-987-43	s DIODE CL-150PG-CD
D1502	8-719-987-43	s DIODE CL-150PG-CD
D1503	8-719-987-43	s DIODE CL-150PG-CD
D1600	8-719-989-08	s DIODE RB717F
D1601	8-719-989-08	s DIODE RB717F
D1603	8-719-989-08	s DIODE RB717F
D1605	8-719-210-39	s DIODE EC10QS-04
D1606	8-719-210-39	s DIODE EC10QS-04
D1607	8-719-210-39	s DIODE EC10QS-04
D1608	8-719-210-39	s DIODE EC10QS-04
D1609	8-719-987-43	s DIODE CL-150PG-CD
D5100	8-719-210-39	s DIODE EC10QS-04
D6000	8-719-989-22	s DIODE CL-150R-CD
D6001	8-719-989-22	s DIODE CL-150R-CD
D6002	8-719-987-43	s DIODE CL-150PG-CD
D6100	8-719-987-43	s DIODE CL-150PG-CD
D6101	8-719-987-43	s DIODE CL-150PG-CD
D6102	8-719-989-22	s DIODE CL-150R-CD
D6600	8-719-989-08	s DIODE RB717F
D6601	8-719-989-08	s DIODE RB717F
D6602	8-719-989-08	s DIODE RB717F
D6603	8-719-989-08	s DIODE RB717F
D6604	8-719-989-08	s DIODE RB717F
D6605	8-719-987-43	s DIODE CL-150PG-CD
D6606	8-719-987-43	s DIODE CL-150PG-CD
D6607	8-719-987-43	s DIODE CL-150PG-CD
D6608	8-719-987-43	s DIODE CL-150PG-CD
D6609	8-719-157-11	s DIODE RD3.3M-B
E1300	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1301	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1302	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1303	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1304	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1305	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1306	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1307	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1308	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
E1309	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
FB100	1-543-309-21	s BEAD, FERRITE
FB101	1-543-309-21	s BEAD, FERRITE
FB102	1-543-309-21	s BEAD, FERRITE
FB103	1-543-309-21	s BEAD, FERRITE
FB104	1-543-309-21	s BEAD, FERRITE
FB300	1-543-309-21	s BEAD, FERRITE
FB301	1-543-309-21	s BEAD, FERRITE
FB302	1-543-309-21	s BEAD, FERRITE
FB303	1-543-309-21	s BEAD, FERRITE
FB700	1-543-309-21	s BEAD, FERRITE
FL300	1-239-898-22	s FILTER, EMI (SMD)
FL301	1-239-898-22	s FILTER, EMI (SMD)
FL302	1-239-898-22	s FILTER, EMI (SMD)
FL303	1-239-898-22	s FILTER, EMI (SMD)
IC100	8-759-927-46	s IC SN74HC00ANS
IC101	8-759-252-59	s IC MAX202CSE
IC200	8-759-089-31	s IC IDT74FCT16245ATPV-TL
IC201	8-759-590-17	s IC IDT74FCT16244ATPV-TL
IC300	8-759-497-29	s IC LC35256DM-70-TLM

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Ref. No. or Q'ty	Part No.	SP Description
IC301	8-759-271-86	s IC TC7SH04FU
IC302	8-759-428-99	s IC MB86964PFV
IC400	8-759-495-92	s IC SN74LVTH16245ADGGR
IC401	8-759-481-11	s IC SN74LVTH16244ADGGR
IC402	8-759-495-92	s IC SN74LVTH16245ADGGR
IC403	8-759-481-11	s IC SN74LVTH16244ADGGR
IC500	8-759-525-96	s IC EPF10K50VRC240-3
IC501	--PENDING---	o IC EPC1PC8, EPROM
IC502	8-759-578-24	s IC IDT7027L20PF
IC503	8-759-578-24	s IC IDT7027L20PF
IC600	--PENDING---	o IC EPC1PC8, EPROM
IC601	8-759-525-96	s IC EPF10K50VRC240-3
IC602	8-759-443-54	s IC IDT49FCT805AS0-TL
IC700	8-759-578-69	s IC TMPR3904F
IC701	8-759-547-69	s IC SN74LVTH244ANS-E05
IC702	8-759-578-02	s IC NM93C56EM8X
IC703	8-759-493-02	s IC TC5165165AFTS-50
IC704	8-759-493-02	s IC TC5165165AFTS-50
IC705	8-759-544-52	s IC MBM29LV800TA-90PFTN
IC706	8-759-544-52	s IC MBM29LV800TA-90PFTN
IC707	8-759-544-52	s IC MBM29LV800TA-90PFTN
IC708	8-759-544-52	s IC MBM29LV800TA-90PFTN
IC800	8-759-493-04	s IC CLC014AJE-TR
IC801	8-759-458-36	s IC CY7B933-JC
IC802	8-759-422-45	s IC CY7B923-JC
IC900	8-759-578-22	s IC IDT72271L10PF
IC901	--PENDING---	o IC EPC1PC8, EPROM
IC902	8-759-525-96	s IC EPF10K50VRC240-3
IC900	8-759-525-96	s IC EPF10K50VRC240-3
IC1001	--PENDING---	o IC EPC1PC8, EPROM
IC1002	8-759-482-23	s IC IDT71V016S15Y-TL
IC1100	8-759-589-26	s IC EPF10K100ARC240-3
IC1101	--PENDING---	o IC EPC1PC8, EPROM
IC1103	8-759-524-27	s IC TC74VHC244FT(EL)
IC1104	8-759-524-27	s IC TC74VHC244FT(EL)
IC1200	8-759-578-26	s IC IDT72V211L20PF
IC1201	8-759-577-99	s IC CAS9053
IC1202	8-759-578-25	s IC IDT72V261L15PF
IC1300	8-759-578-03	s IC SN74LVTH541NS-E05
IC1301	8-759-481-11	s IC SN74LVTH16244ADGGR
IC1302	8-759-481-11	s IC SN74LVTH16244ADGGR
IC1303	8-759-495-92	s IC SN74LVTH16245ADGGR
IC1400	--PENDING---	o IC EPC1PC8, EPROM
IC1401	8-759-525-96	s IC EPF10K50VRC240-3
IC1402	8-759-578-24	s IC IDT7027L20PF
IC1403	8-759-578-24	s IC IDT7027L20PF
IC1500	--PENDING---	o IC EPC1PC8, EPROM
IC1501	8-759-525-96	s IC EPF10K50VRC240-3
IC1502	8-759-589-48	s IC IDT7007L15PF
IC1503	8-759-578-25	s IC IDT72V261L15PF
IC1600	8-759-447-40	s IC MAX706CSA
IC1601	8-759-183-23	s IC IDT74FCT541ATS0-TL
IC1602	8-759-561-50	s IC LM3940IS-3.3
IC1603	8-759-561-50	s IC LM3940IS-3.3
IC1604	8-759-561-50	s IC LM3940IS-3.3
IC1605	8-759-561-50	s IC LM3940IS-3.3
IC1700	8-759-443-54	s IC IDT49FCT805AS0-TL
IC1701	8-759-443-54	s IC IDT49FCT805AS0-TL
IC1702	8-759-443-54	s IC IDT49FCT805AS0-TL

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Ref. No. or Q'ty	Part No.	SP	Description
IC1703	8-759-443-54	s	IC IDT49FCT805AS0-TL
IC1704	8-759-443-54	s	IC IDT49FCT805AS0-TL
IC5100	8-759-296-31	s	IC M48T18-100MH1TR
IC6001	8-759-482-23	s	IC IDT71V016S15Y-TL
IC6002	8-759-482-23	s	IC IDT71V016S15Y-TL
IC6100	--PENDING---	o	IC EPC1PC8, EPROM
IC6700	8-759-443-54	s	IC IDT49FCT805AS0-TL
IC6701	8-759-443-54	s	IC IDT49FCT805AS0-TL
IS501	1-526-652-21	s	SOCKET, IC 8P
IS600	1-526-652-21	s	SOCKET, IC 8P
IS901	1-526-652-21	s	SOCKET, IC 8P
IS1001	1-526-652-21	s	SOCKET, IC 8P
IS1101	1-526-652-21	s	SOCKET, IC 8P
IS1400	1-526-652-21	s	SOCKET, IC 8P
IS1500	1-526-652-21	s	SOCKET, IC 8P
IS6000	1-526-652-21	s	SOCKET, IC 8P
IS6100	1-526-652-21	s	SOCKET, IC 8P
L1601	1-412-519-11	s	INDUCTOR 3.3UH
Q100	8-729-216-22	s	TRANSISTOR 2SA1162
Q101	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q102	8-729-216-22	s	TRANSISTOR 2SA1162
Q103	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q104	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q105	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q600	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q601	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q602	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q603	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q604	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q605	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q6300	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q6301	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q6600	8-729-900-53	s	TRANSISTOR DTC114EK
Q6601	8-729-900-53	s	TRANSISTOR DTC114EK
Q6602	8-729-900-53	s	TRANSISTOR DTC114EK
Q6603	8-729-900-53	s	TRANSISTOR DTC114EK
Q6700	8-729-900-53	s	TRANSISTOR DTC114EK
R100	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R101	1-216-697-91	s	METAL 82K 0.50% 1/10W
R102	1-216-683-11	s	METAL, CHIP 22K 0.5% 1/10W
R103	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R104	1-216-675-91	s	METAL 10K 0.50% 1/10W
R105	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R106	1-216-627-11	s	METAL, CHIP 100 0.5% 1/10W
R107	1-216-667-11	s	METAL, CHIP 4.7K 0.5% 1/10W
R108	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R109	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R110	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R111	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R112	1-216-295-91	s	RES, CHIP 0
R113	1-216-675-91	s	METAL 10K 0.50% 1/10W
R114	1-216-675-91	s	METAL 10K 0.50% 1/10W
R115	1-216-675-91	s	METAL 10K 0.50% 1/10W
R116	1-216-675-91	s	METAL 10K 0.50% 1/10W
R117	1-216-675-91	s	METAL 10K 0.50% 1/10W
R118	1-216-675-91	s	METAL 10K 0.50% 1/10W
R119	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R120	1-216-675-91	s	METAL 10K 0.50% 1/10W
R121	1-216-675-91	s	METAL 10K 0.50% 1/10W
R122	1-216-675-91	s	METAL 10K 0.50% 1/10W
R123	1-216-675-91	s	METAL 10K 0.50% 1/10W
R124	1-216-675-91	s	METAL 10K 0.50% 1/10W
R125	1-216-675-91	s	METAL 10K 0.50% 1/10W
R126	1-216-675-91	s	METAL 10K 0.50% 1/10W
R127	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R128	1-216-675-91	s	METAL 10K 0.50% 1/10W
R129	1-216-675-91	s	METAL 10K 0.50% 1/10W
R130	1-216-675-91	s	METAL 10K 0.50% 1/10W
R131	1-216-675-91	s	METAL 10K 0.50% 1/10W
R132	1-216-675-91	s	METAL 10K 0.50% 1/10W
R133	1-216-675-91	s	METAL 10K 0.50% 1/10W
R134	1-216-675-91	s	METAL 10K 0.50% 1/10W
R135	1-216-675-91	s	METAL 10K 0.50% 1/10W
R136	1-216-675-91	s	METAL 10K 0.50% 1/10W
R137	1-216-675-91	s	METAL 10K 0.50% 1/10W
R138	1-216-675-91	s	METAL 10K 0.50% 1/10W
R139	1-216-675-91	s	METAL 10K 0.50% 1/10W
R140	1-216-675-91	s	METAL 10K 0.50% 1/10W
R141	1-216-675-91	s	METAL 10K 0.50% 1/10W
R142	1-216-675-91	s	METAL 10K 0.50% 1/10W
R143	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R144	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R145	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R146	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R147	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R148	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R149	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R150	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R151	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R152	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R153	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R154	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R155	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R156	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R157	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R158	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R159	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R160	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R161	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R162	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R163	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R164	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R165	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R166	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R167	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R168	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R169	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R170	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R171	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R173	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R174	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R175	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R176	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R177	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R178	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W
R179	1-216-603-11	s	METAL, CHIP 10 0.5% 1/10W

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Ref. No. or Q'ty	Part No.	SP Description
R825	1-216-622-91	s METAL 62 0.50% 1/10W
R826	1-216-622-91	s METAL 62 0.50% 1/10W
R900	1-216-295-91	s RES, CHIP 0
R902	1-216-295-91	s RES, CHIP 0
R903	1-216-675-91	s METAL 10K 0.50% 1/10W
R904	1-216-675-91	s METAL 10K 0.50% 1/10W
R905	1-216-675-91	s METAL 10K 0.50% 1/10W
R906	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R907	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R908	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R909	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R910	1-216-675-91	s METAL 10K 0.50% 1/10W
R911	1-216-675-91	s METAL 10K 0.50% 1/10W
R912	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R913	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R914	1-216-295-91	s RES, CHIP 0
R1000	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1001	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1002	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1003	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1004	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1005	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1006	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1007	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1100	1-216-675-91	s METAL 10K 0.50% 1/10W
R1101	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1102	1-216-675-91	s METAL 10K 0.50% 1/10W
R1103	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1104	1-216-675-91	s METAL 10K 0.50% 1/10W
R1105	1-216-675-91	s METAL 10K 0.50% 1/10W
R1106	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1107	1-216-675-91	s METAL 10K 0.50% 1/10W
R1108	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R1109	1-216-675-91	s METAL 10K 0.50% 1/10W
R1110	1-216-675-91	s METAL 10K 0.50% 1/10W
R1111	1-216-675-91	s METAL 10K 0.50% 1/10W
R1112	1-216-675-91	s METAL 10K 0.50% 1/10W
R1113	1-216-675-91	s METAL 10K 0.50% 1/10W
R1114	1-216-675-91	s METAL 10K 0.50% 1/10W
R1115	1-216-675-91	s METAL 10K 0.50% 1/10W
R1116	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1117	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1118	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1119	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1120	1-216-675-91	s METAL 10K 0.50% 1/10W
R1121	1-216-675-91	s METAL 10K 0.50% 1/10W
R1122	1-216-675-91	s METAL 10K 0.50% 1/10W
R1123	1-216-675-91	s METAL 10K 0.50% 1/10W
R1124	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R1125	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R1126	1-216-682-11	s METAL, CHIP 20K 0.5% 1/10W
R1127	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1128	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R1129	1-216-659-11	s METAL, CHIP 2.2K 0.5% 1/10W
R1130	1-216-675-91	s METAL 10K 0.50% 1/10W
R1131	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1200	1-216-675-91	s METAL 10K 0.50% 1/10W
R1201	1-216-675-91	s METAL 10K 0.50% 1/10W
R1202	1-216-295-91	s RES, CHIP 0

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Ref. No. or Q'ty	Part No.	SP Description
R1203	1-216-295-91	s RES, CHIP 0
R1204	1-216-295-91	s RES, CHIP 0
R1205	1-216-295-91	s RES, CHIP 0
R1206	1-216-295-91	s RES, CHIP 0
R1207	1-216-295-91	s RES, CHIP 0
R1208	1-216-295-91	s RES, CHIP 0
R1209	1-216-295-91	s RES, CHIP 0
R1210	1-216-295-91	s RES, CHIP 0
R1211	1-216-295-91	s RES, CHIP 0
R1212	1-216-675-91	s METAL 10K 0.50% 1/10W
R1213	1-216-675-91	s METAL 10K 0.50% 1/10W
R1214	1-216-675-91	s METAL 10K 0.50% 1/10W
R1215	1-216-295-91	s RES, CHIP 0
R1216	1-216-295-91	s RES, CHIP 0
R1217	1-216-675-91	s METAL 10K 0.50% 1/10W
R1218	1-216-295-91	s RES, CHIP 0
R1300	1-216-295-91	s RES, CHIP 0
R1301	1-216-089-91	s METAL, CHIP 47k 5% 1/10W
R1302	1-216-089-91	s METAL, CHIP 47k 5% 1/10W
R1303	1-216-089-91	s METAL, CHIP 47k 5% 1/10W
R1304	1-216-073-00	s METAL, CHIP 10K 5% 1/10W
R1400	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R1401	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R1402	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1403	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1404	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1405	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R1406	1-216-675-91	s METAL 10K 0.50% 1/10W
R1407	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R1408	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R1409	1-216-675-91	s METAL 10K 0.50% 1/10W
R1410	1-216-675-91	s METAL 10K 0.50% 1/10W
R1411	1-216-675-91	s METAL 10K 0.50% 1/10W
R1412	1-216-675-91	s METAL 10K 0.50% 1/10W
R1413	1-216-675-91	s METAL 10K 0.50% 1/10W
R1414	1-216-675-91	s METAL 10K 0.50% 1/10W
R1415	1-216-675-91	s METAL 10K 0.50% 1/10W
R1416	1-216-675-91	s METAL 10K 0.50% 1/10W
R1417	1-216-675-91	s METAL 10K 0.50% 1/10W
R1418	1-216-675-91	s METAL 10K 0.50% 1/10W
R1419	1-216-675-91	s METAL 10K 0.50% 1/10W
R1420	1-216-675-91	s METAL 10K 0.50% 1/10W
R1421	1-216-675-91	s METAL 10K 0.50% 1/10W
R1422	1-216-675-91	s METAL 10K 0.50% 1/10W
R1423	1-216-675-91	s METAL 10K 0.50% 1/10W
R1424	1-216-675-91	s METAL 10K 0.50% 1/10W
R1425	1-216-675-91	s METAL 10K 0.50% 1/10W
R1426	1-216-675-91	s METAL 10K 0.50% 1/10W
R1427	1-216-675-91	s METAL 10K 0.50% 1/10W
R1428	1-216-675-91	s METAL 10K 0.50% 1/10W
R1429	1-216-675-91	s METAL 10K 0.50% 1/10W
R1430	1-216-675-91	s METAL 10K 0.50% 1/10W
R1431	1-216-675-91	s METAL 10K 0.50% 1/10W
R1432	1-216-675-91	s METAL 10K 0.50% 1/10W
R1433	1-216-675-91	s METAL 10K 0.50% 1/10W
R1434	1-216-675-91	s METAL 10K 0.50% 1/10W
R1435	1-216-675-91	s METAL 10K 0.50% 1/10W
R1436	1-216-675-91	s METAL 10K 0.50% 1/10W
R1437	1-216-675-91	s METAL 10K 0.50% 1/10W

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Ref. No. or Q'ty	Part No.	SP	Description
R1438	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1439	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1440	1-216-295-91	s	RES, CHIP 0
R1500	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1501	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1502	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1503	1-216-651-11	s	METAL, CHIP 1K 0.5% 1/10W
R1504	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1505	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1506	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1507	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1508	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1509	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1510	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1511	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1512	1-216-675-91	s	METAL 10K 0.50% 1/10W
R1513	1-216-295-91	s	RES, CHIP 0
R1514	1-216-295-91	s	RES, CHIP 0
R1601	1-216-295-91	s	RES, CHIP 0
R1602	1-216-295-91	s	RES, CHIP 0
R1605	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R1610	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R1700	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R1701	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R1704	1-216-295-91	s	RES, CHIP 0
R1705	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R1706	1-216-295-91	s	RES, CHIP 0
R1707	1-216-295-91	s	RES, CHIP 0
R1708	1-216-295-91	s	RES, CHIP 0
R1709	1-216-295-91	s	RES, CHIP 0
R1710	1-216-295-91	s	RES, CHIP 0
R1711	1-216-295-91	s	RES, CHIP 0
R1712	1-216-295-91	s	RES, CHIP 0
R1713	1-216-295-91	s	RES, CHIP 0
R1714	1-216-295-91	s	RES, CHIP 0
R1715	1-216-295-91	s	RES, CHIP 0
R1716	1-216-295-91	s	RES, CHIP 0
R1717	1-216-295-91	s	RES, CHIP 0
R1718	1-216-295-91	s	RES, CHIP 0
R1719	1-216-295-91	s	RES, CHIP 0
R1720	1-216-699-11	s	METAL, CHIP 100K 0.5% 1/10W
R1721	1-216-295-91	s	RES, CHIP 0
R1722	1-216-295-91	s	RES, CHIP 0
R1723	1-216-295-91	s	RES, CHIP 0
R1724	1-216-295-91	s	RES, CHIP 0
R1725	1-216-295-91	s	RES, CHIP 0
R1726	1-216-295-91	s	RES, CHIP 0
R1727	1-216-295-91	s	RES, CHIP 0
R1728	1-216-295-91	s	RES, CHIP 0
R1729	1-216-295-91	s	RES, CHIP 0
R1730	1-216-295-91	s	RES, CHIP 0
R1731	1-216-295-91	s	RES, CHIP 0
R1732	1-216-295-91	s	RES, CHIP 0
R1733	1-216-295-91	s	RES, CHIP 0
R1734	1-216-295-91	s	RES, CHIP 0
R1735	1-216-295-91	s	RES, CHIP 0
R1736	1-216-295-91	s	RES, CHIP 0
R1737	1-216-295-91	s	RES, CHIP 0
R1738	1-216-295-91	s	RES, CHIP 0

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Ref. No. or Q'ty	Part No.	SP	Description
R5100	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5101	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5102	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5103	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5104	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5105	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5106	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5200	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5201	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5202	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5203	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5204	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5205	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5206	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5207	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5208	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5209	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5210	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5211	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5400	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5401	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5402	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5403	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5500	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5501	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5502	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5503	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5504	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5505	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5600	1-216-295-91	s	RES, CHIP 0
R5601	1-216-295-91	s	RES, CHIP 0
R5602	1-216-295-91	s	RES, CHIP 0
R5603	1-216-295-91	s	RES, CHIP 0
R5604	1-216-295-91	s	RES, CHIP 0
R5605	1-216-295-91	s	RES, CHIP 0
R5606	1-216-295-91	s	RES, CHIP 0
R5607	1-216-295-91	s	RES, CHIP 0
R5608	1-216-295-91	s	RES, CHIP 0
R5609	1-216-295-91	s	RES, CHIP 0
R5610	1-216-295-91	s	RES, CHIP 0
R5611	1-216-295-91	s	RES, CHIP 0
R5700	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5701	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5702	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5703	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5704	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5705	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5706	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5900	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5901	1-216-675-91	s	METAL 10K 0.50% 1/10W
R5902	1-216-675-91	s	METAL 10K 0.50% 1/10W
R6000	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R6001	1-216-639-11	s	METAL, CHIP 330 0.5% 1/10W
R6002	1-216-643-11	s	METAL, CHIP 470 0.5% 1/10W
R6003	1-216-643-11	s	METAL, CHIP 470 0.5% 1/10W
R6004	1-216-675-91	s	METAL 10K 0.50% 1/10W
R6005	1-216-675-91	s	METAL 10K 0.50% 1/10W
R6006	1-216-675-91	s	METAL 10K 0.50% 1/10W
R6100	1-216-643-11	s	METAL, CHIP 470 0.5% 1/10W

(IF-694 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
R6101	1-216-643-11	s METAL, CHIP 470 0.5% 1/10W
R6102	1-216-675-91	s METAL 10K 0.50% 1/10W
R6103	1-216-675-91	s METAL 10K 0.50% 1/10W
R6104	1-216-675-91	s METAL 10K 0.50% 1/10W
R6105	1-216-675-91	s METAL 10K 0.50% 1/10W
R6200	1-216-675-91	s METAL 10K 0.50% 1/10W
R6201	1-216-675-91	s METAL 10K 0.50% 1/10W
R6202	1-216-675-91	s METAL 10K 0.50% 1/10W
R6203	1-216-675-91	s METAL 10K 0.50% 1/10W
R6204	1-216-675-91	s METAL 10K 0.50% 1/10W
R6205	1-216-675-91	s METAL 10K 0.50% 1/10W
R6206	1-216-651-11	s METAL, CHIP 1K 0.5% 1/10W
R6207	1-216-675-91	s METAL 10K 0.50% 1/10W
R6208	1-216-675-91	s METAL 10K 0.50% 1/10W
R6209	1-216-675-91	s METAL 10K 0.50% 1/10W
R6210	1-216-675-91	s METAL 10K 0.50% 1/10W
R6300	1-216-675-91	s METAL 10K 0.50% 1/10W
R6301	1-216-675-91	s METAL 10K 0.50% 1/10W
R6302	1-216-675-91	s METAL 10K 0.50% 1/10W
R6303	1-216-675-91	s METAL 10K 0.50% 1/10W
R6304	1-216-675-91	s METAL 10K 0.50% 1/10W
R6305	1-216-675-91	s METAL 10K 0.50% 1/10W
R6306	1-216-675-91	s METAL 10K 0.50% 1/10W
R6307	1-216-675-91	s METAL 10K 0.50% 1/10W
R6308	1-216-675-91	s METAL 10K 0.50% 1/10W
R6309	1-216-675-91	s METAL 10K 0.50% 1/10W
R6310	1-216-675-91	s METAL 10K 0.50% 1/10W
R6400	1-216-675-91	s METAL 10K 0.50% 1/10W
R6401	1-216-675-91	s METAL 10K 0.50% 1/10W
R6402	1-216-675-91	s METAL 10K 0.50% 1/10W
R6403	1-216-675-91	s METAL 10K 0.50% 1/10W
R6404	1-216-675-91	s METAL 10K 0.50% 1/10W
R6500	1-216-675-91	s METAL 10K 0.50% 1/10W
R6501	1-216-675-91	s METAL 10K 0.50% 1/10W
R6502	1-216-675-91	s METAL 10K 0.50% 1/10W
R6503	1-216-675-91	s METAL 10K 0.50% 1/10W
R6504	1-216-675-91	s METAL 10K 0.50% 1/10W
R6505	1-216-675-91	s METAL 10K 0.50% 1/10W
R6506	1-216-675-91	s METAL 10K 0.50% 1/10W
R6507	1-216-675-91	s METAL 10K 0.50% 1/10W
R6508	1-216-675-91	s METAL 10K 0.50% 1/10W
R6509	1-216-675-91	s METAL 10K 0.50% 1/10W
R6510	1-216-675-91	s METAL 10K 0.50% 1/10W
R6511	1-216-675-91	s METAL 10K 0.50% 1/10W
R6512	1-216-675-91	s METAL 10K 0.50% 1/10W
R6513	1-216-675-91	s METAL 10K 0.50% 1/10W
R6514	1-216-675-91	s METAL 10K 0.50% 1/10W
R6515	1-216-675-91	s METAL 10K 0.50% 1/10W
R6600	1-216-675-91	s METAL 10K 0.50% 1/10W
R6601	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R6602	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R6603	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R6604	1-216-639-11	s METAL, CHIP 330 0.5% 1/10W
R6605	1-216-637-11	s METAL, CHIP 270 0.5% 1/10W
R6606	1-216-692-11	s METAL, CHIP 51K 0.5% 1/10W
R6607	1-216-689-11	s METAL, CHIP 39K 0.5% 1/10W
R6700	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R6701	1-216-699-11	s METAL, CHIP 100K 0.5% 1/10W
R6702	1-216-675-91	s METAL 10K 0.50% 1/10W

(IF-694 BOARD)

Ref. No. or Q'ty	Part No.	SP Description
RB700	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB701	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB702	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB703	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB704	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB705	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB706	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB707	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB1300	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB1301	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB1302	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB1303	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB1304	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RB1305	1-239-308-11	s RESISTOR BLOCK, CHIP 47kx8
RB1306	1-239-292-11	s RESISTOR ARRAY, CHIP 33K
RY100	1-515-928-11	s RELAY
RY101	1-515-928-11	s RELAY
S600	1-571-967-11	s SWITCH, DIP 8-CKT
S601	1-570-204-21	s SWITCH, KEY BOARD
S602	1-570-623-11	s SWITCH, DIP 8-CKT
S603	1-570-623-11	s SWITCH, DIP 8-CKT
S604	1-570-623-11	s SWITCH, DIP 8-CKT
S1100	1-554-963-11	s SWITCH, ROTARY (S-1010A)
S1101	1-554-963-11	s SWITCH, ROTARY (S-1010A)
S1102	1-554-963-11	s SWITCH, ROTARY (S-1010A)
S1103	1-554-963-11	s SWITCH, ROTARY (S-1010A)
S1600	1-570-204-21	s SWITCH, KEY BOARD
T300	1-429-752-11	s TRANSFORMER, PULSE
T800	1-429-753-11	s TRANSFORMER, PULSE
TP1000	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1001	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1100	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1101	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1600	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1601	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1602	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1603	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1604	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1605	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1606	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1607	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP1608	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
TP6600	1-535-881-21	o TERMINAL, TP (AUTO INSERTION)
X300	1-767-279-21	s OSCILLATOR, CRYSTAL
X700	1-781-314-21	s OSCILLATOR, CRYSTAL
X1100	1-767-695-21	s OSCILLATOR, CRYSTAL
X1101	1-767-695-21	s OSCILLATOR, CRYSTAL
X1700	1-767-278-11	s OSCILLATOR, CRYSTAL
X1701	1-767-278-11	s OSCILLATOR, CRYSTAL
X1702	1-767-824-11	s OSCILLATOR, CRYSTAL (SMD)20MHZ
X1703	1-767-278-11	s OSCILLATOR, CRYSTAL
X6700	1-760-969-21	s OSCILLATOR, CRYSTAL
X6701	1-760-969-21	s OSCILLATOR, CRYSTAL

FRAME

Ref. No. or Q'ty	Part No.	SP Description
CN1002	1-251-384-11	s INLET (WITH NOISE FILTER)
FAN1	1-698-986-11	s FAN, DC
REG1	1-413-917-12	s SWITCHING REG.(TDK.FAW05-10R)
HN101	1-959-367-11	o HARNESS, SUB (LED 5) (To CN100/DP-271 BOARD)
10pcs	1-569-193-11	o CONTACT, FEMALE
1pc	1-569-203-11	o HOUSING, CONNECTOR 10P (To CN200/IF-694 BOARD)
10pcs	1-569-193-11	o CONTACT, FEMALE
1pc	1-569-203-11	o HOUSING, CONNECTOR 10P
HN102	1-959-366-11	o HARNESS, SUB (LED 26) (CN100/DP-270 BOARD to CN201/IF-694 BOARD)
HN103	1-959-368-11	o HARNESS, SUB (PILOT LAMP) (To CN1/DP-131 BOARD)
2pcs	1-569-193-11	o CONTACT, FEMALE
1pc	1-569-196-11	o HOUSING 3P (To CN100/IF-694 BOARD)
2pcs	1-569-193-11	o CONTACT, FEMALE
1pc	1-569-196-11	o HOUSING 3P
HN104	1-959-369-11	o HARNESS, SUB (FAN) (To CN1001)
3pcs	1-564-092-11	o TERMINAL, SOLDERLESS (IL-M)
1pc	1-565-896-11	o HOUSING, CONNECTOR (IL-M) 3P (To CN101/IF-694 BOARD)
3pcs	1-569-193-11	o CONTACT, FEMALE
1pc	1-569-196-11	o HOUSING 3P
HN105	1-959-365-11	o HARNESS, SUB (DC +5) (POWER SUPPLY to CN1600/IF-694 BOARD)
HN106	1-959-364-11	o HARNESS, SUB (AC SW) (POWER SUPPLY to POWER SWITCH)
HN107	1-953-860-11	o HARNESS, SUB (WIRE, GROUND)

SUPPLIED ACCESSORY (BDX-N1000)

Ref. No. or Q'ty	Part No.	SP Description
8pcs	7-682-561-04	s SCREW +B 4X8

SUPPLIED ACCESSORY (BDKP-N1001)

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-616-655-11	o TAPE, MAGIC
1pc	3-616-659-01	o PANEL, REAR (1001)
1pc	3-622-576-01	o FILTER (B)
4pcs	7-682-547-09	s SCREW +B 3X6
4pcs	7-682-947-01	s SCREW +PSW 3X6

SUPPLIED ACCESSORY (BDKP-N1002)

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-616-655-11	o TAPE, MAGIC
1pc	3-616-662-01	o PANEL, REAR (1002)
1pc	3-622-576-01	o FILTER (B)
4pcs	7-682-547-09	s SCREW +B 3X6
4pcs	7-682-947-01	s SCREW +PSW 3X6

SUPPLIED ACCESSORY (BDKP-N1003)

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-616-660-11	o PANEL, REAR (1003)
4pcs	7-682-547-09	s SCREW +B 3X6
4pcs	7-682-947-01	s SCREW +PSW 3X6

SUPPLIED ACCESSORY (BDKP-N1004)

Ref. No. or Q'ty	Part No.	SP Description
1pc	3-616-660-01	o PANEL, REAR (1003)
4pcs	7-682-547-09	s SCREW +B 3X6
4pcs	7-682-947-01	s SCREW +PSW 3X6

POWER CORDS

Ref. No.
or Q'ty Part No. SP Description

<For the customer in Japan>
1pc △ 1-575-181-11 s CORD SET, POWER

<For the customer in the U.S.A. and Canada>
1pc △ 1-557-377-11 s CORD SET, POWER

<For the customer in the United Kingdom>
Use the DK-2401 (UK).

<For the customer in Europe except the United Kingdom>
Use the DK-2401 (AE).

OPTIONAL FIXTURE

Part No. SP Description

J-6450-350-A o CONTROLLER SOFTWARE, BDX-N1000

Section 3

Semiconductor Pin Assignments

ここに記載されている半導体は、それぞれの機能を等価的に表したものです。なお、互換性のない型名を併記していることがありますので、部品を交換するときは、Spare Partsの章を参照してください。

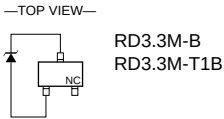
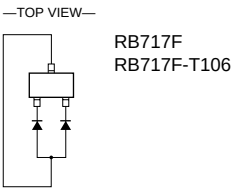
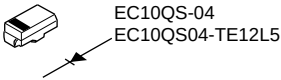
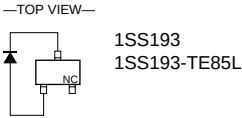
等価回路はICメーカーのデータブックに従いました。

Semiconductors of which functions are equivalent are described here. For parts replacement, refer to the section of Spare Parts in this manual. The circuit diagram of each IC is obtained from the IC data book published by the manufacturer.

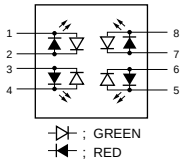
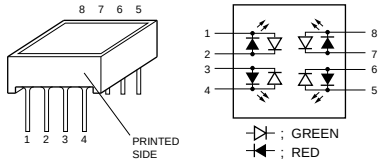
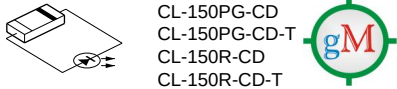
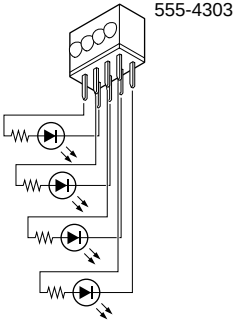
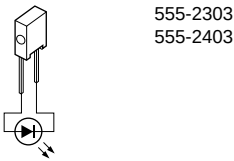
DIODE	Page	IC	Page	IC	Page
1N4148	3-2	78P7200-IH	3-3	TC5165165AFTS-50	3-15
1SS193	3-2			TC74VHC244FT(EL)	3-15
1SS193-TE85L	3-2	CAS9053	3-3	TC7SH04F(TE85R)	3-15
		CLC014AJE-TR	3-3	TC7SH04FU	3-15
EC10QS-04	3-2	CY7B923-JC	3-4	TMPR3904F	3-16
EC10QS04-TE12L5	3-2	CY7B933-JC	3-4		
RB717F	3-2	EPC1PC8	3-5		
RB717F-T106	3-2	EPF10K100ARC240-3	3-5		
RD3.3M-B	3-2	EPF10K20TC144-3	3-6		
RD3.3M-T1B	3-2	EPF10K50VRC240-3	3-6		
		HDSP-2111	3-4		
		IDT49FCT805ASO-TL	3-7		
		IDT7007L15PF	3-7		
LED	Page	IDT7027L20PF	3-7		
		IDT71V016S15Y-TL	3-8		
555-2303	3-2	IDT72271L10PF	3-8		
555-2403	3-2	IDT72V211L20PF	3-8		
555-4303	3-2	IDT72V261L15PF	3-8		
		IDT74FCT16244ATPV	3-9		
CL-150PG-CD	3-2	IDT74FCT16245ATPV	3-9		
CL-150PG-CD-T	3-2	IDT74FCT541ATSO-TL	3-9		
CL-150R-CD	3-2	IDT77155L155PX	3-10		
CL-150R-CD-T	3-2				
		LC35256DM-70-TLM	3-10		
HLMP-2965	3-2	LM393PS	3-11		
		LM393PS-E05	3-11		
SPR-54MVW	3-2	LM3940IS-3.3	3-11		
		M48T18-100MH1TR	3-11		
		MAX202CSE	3-11		
		MAX202CSE-T	3-11		
		MAX706CSA	3-11		
TRANSISTOR	Page	MAX706CSA-TE2	3-11		
		MB86964PFV	3-14		
2SA1162G	3-2				
2SA812-T1M5	3-2	NM93C56EM8X	3-11		
2SC1623	3-2				
2SC1623-T1-L5L6	3-2	PM7345-RI	3-12		
DTC114EKA-T146	3-2	SN74HC00ANS	3-15		
		SN74HC00ANS-E05	3-15		
		SN74LVTH16244ADGGR	3-15		
		SN74LVTH16245ADGGR	3-9		
		SN74LVTH244ANS-E05	3-15		
		SN74LVTH541NS-E05	3-9		

Diode, LED, Transistor

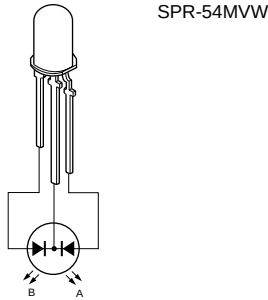
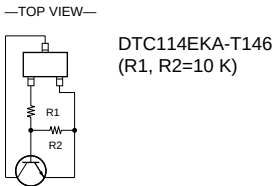
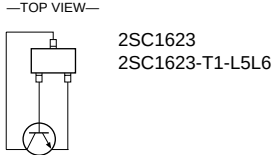
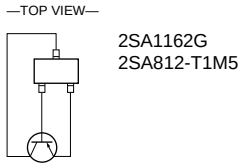
DIODE



LED

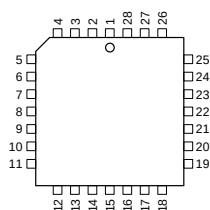


TRANSISTOR



IC

78P7200-IH (TDK SEMI)

DS3/E3/STS-1 LINE INTERFACE WITH RECEIVE EQUALIZER
—TOP VIEW—**INPUTS**

CPD : EXTERNAL CAPACITOR
LBO : TRANSMITTER LINE BUILDOUT CONTROL
LF1, LF2 : FILTER NETWORK
LIN+, LIN- : DIFFERENTIAL SIGNAL
OPT1, OPT2 : TRANSMIT OPTION 1, 2
RFO : EXTERNAL REGISTER
TCLK : TRANSMITTER CLOCK
TNEG : TRANSMITTER NEGATIVE DATA
TPOS : TRANSMITTER POSITIVE DATA

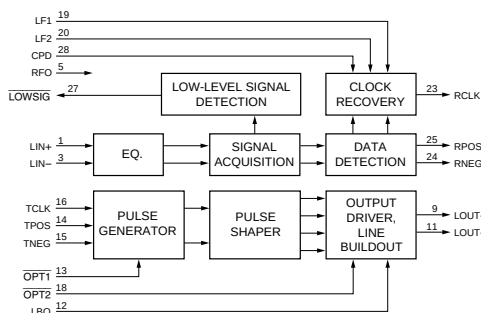
OUTPUTS

LOUT+ : POSITIVE DATA PULSE
LOUT- : NEGATIVE DATA PULSE
LOWSIG : LOW SIGNAL
RCLK : RECOVERED CLOCK
RNEG : RECEIVER NEGATIVE PULSE
RPOS : RECEIVER POSITIVE PULSE

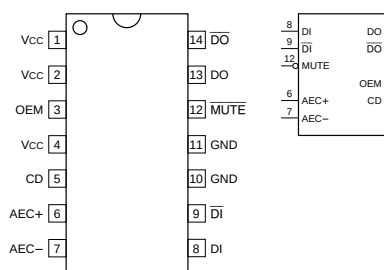
OTHER

NC : NO CONNECT

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	LIN+	15	I	TNEG
2	—	NC	16	I	TCLK
3	I	LIN-	17	—	Vcc
4	—	NC	18	I	OPT2
5	I	RFO	19	I	LF1
6	—	GND	20	I	LF2
7	—	Vcc	21	—	NC
8	—	GND	22	—	GND
9	O	LOUT+	23	O	RCLK
10	—	NC	24	O	RNEG
11	O	LOUT-	25	O	RPOS
12	I	LBO	26	—	Vcc
13	I	OPT1	27	O	LOWSIG
14	I	TPOS	28	I	CPD



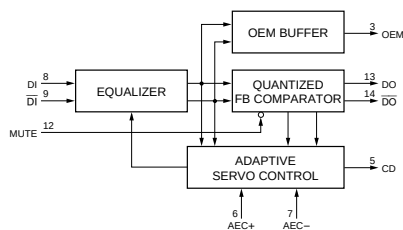
CLC014AJE-TR (NS)

ADAPTIVE CABLE EQUALIZER FOR HIGH-SPEED DATA RECOVERY
—TOP VIEW—**INPUTS**

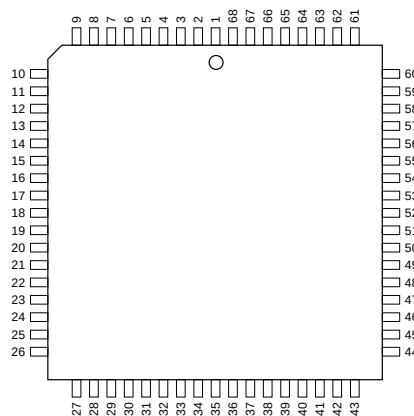
AEC+ : ADAPTIVE EQUALIZER CAPACITOR (POSITIVE)
AEC- : ADAPTIVE EQUALIZER CAPACITOR (NEGATIVE)
DI, D $\bar{I}$: DATA
MUTE : MUTING

OUTPUTS

CD : CARRIER DETECT
DO, D $\bar{O}$: DATA
OEM : OUTPUT EYE MONITOR

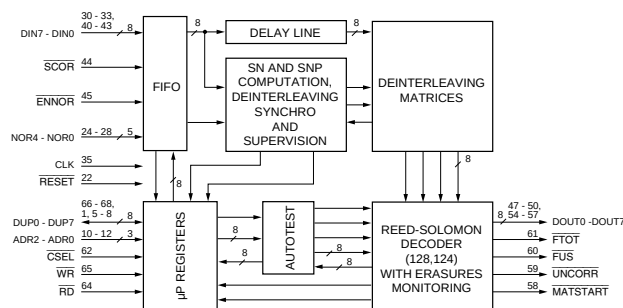


CAS9053 (COMATLAS)

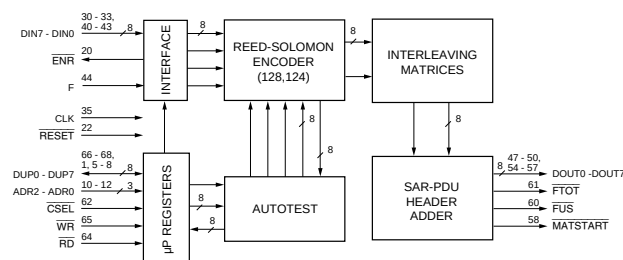
AAL1 VIDEO ERROR PROCESSOR
—TOP VIEW—

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I/O	DUP3	18	—	GND	35	I	CLK	52	—	Vcc
2	—	Vcc	19	I	MODE	36	—	Vcc	53	—	GND
3	—	GND	20	O	ENR	37	—	Vcc	54	O	DOUT4
4	—	GND	21	I	TCK	38	—	GND	55	O	DOUT5
5	I/O	DUP4	22	I	RESET	39	—	GND	56	O	DOUT6
6	I/O	DUP5	23	—	GND	40	I	DIN3	57	O	DOUT7
7	I/O	DUP6	24	I	NOR4	41	I	DIN2	58	O	MATSTART
8	I/O	DUP7	25	I	NOR3	42	I	DIN1	59	O	UNCORR
9	—	Vcc	26	I	NOR2	43	I	DIN0	60	O	FUS
10	I	ADR2	27	I	NOR1	44	I	SCOR/F	61	O	FTOT
11	I	ADR1	28	I	NOR0	45	I	ENNR	62	I	CSEL
12	I	ADR0	29	—	GND	46	O	TDO	63	—	Vcc
13	I	TRST	30	I	DIN7	47	O	DOUT0	64	I	RD
14	I	TMS	31	I	DIN6	48	O	DOUT1	65	I	WR
15	I	TDI	32	I	DIN5	49	O	DOUT2	66	I/O	DUP0
16	—	RESERVED	33	I	DIN4	50	O	DOUT3	67	I/O	DUP1
17	—	GND	34	—	GND	51	—	Vcc	68	I/O	DUP2

RECEPTION (MODE = 0)



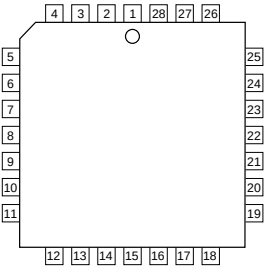
TRANSMISSION (MODE = 1)



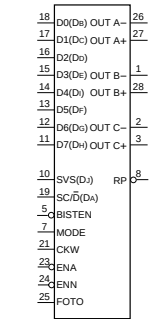
CY7B923-JC (CYPRESS)

BIC-MOS TRANSMITTER

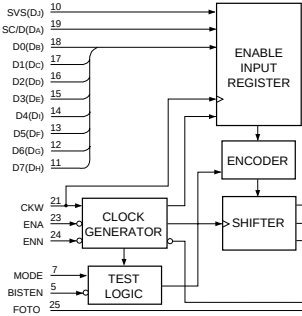
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	O	OUT B-	15	I	D3(De)
2	O	OUT C-	16	I	D2(Dd)
3	O	OUT C+	17	I	D1(Dc)
4	—	V _{DD}	18	I	D0(Db)
5	I	BISTEN	19	I	SC/D(DA)
6	—	GND	20	—	GND
7	I	MODE	21	I	CKW
8	O	RP	22	—	V _{DD}
9	—	V _{DD}	23	I	EN _A
10	I	SVS(DJ)	24	I	EN _N
11	I	D7(Dh)	25	I	FOTO
12	I	D6(Dg)	26	O	OUT A-
13	I	D5(Df)	27	O	OUT A+
14	I	D4(Di)	28	O	OUT B+



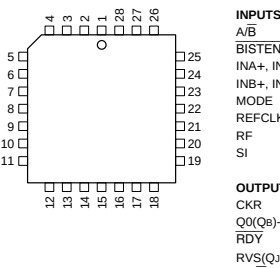
- INPUTS**
- BISTEN : BUILT-IN SELF TEST ENABLE
 - CKW : CLOCK WRITE
 - D0 - D7 : PARALLEL DATA
 - EN_A : ENABLE PARALLEL DATA
 - EN_N : ENABLE NEXT PARALLEL DATA
 - FOTO : FIBER OPTICAL TRANSMITTER OFF
 - MODE : ENCODER MODE SELECT
 - SC/D (DA) : SPECIAL CHARACTER/DATA SELECT
 - SVS (DJ) : SEND VIOLATION SYMBOL
- OUTPUTS**
- OUT A+, OUT A- : DIFFERENTIAL SERIAL DATA
 - OUT B+, OUT B- : DIFFERENTIAL SERIAL DATA
 - OUT C+, OUT C- : DIFFERENTIAL SERIAL DATA
 - RP : READ PULSE



CY7B933-JC (CYPRESS)

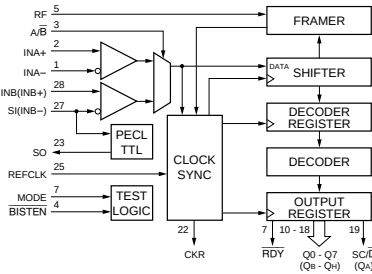
RECEIVER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	INA-	15	O	Q3(Qe)
2	I	INA+	16	O	Q2(Qd)
3	I	A/B	17	O	Q1(Qc)
4	I	BISTEN	18	O	Q0(Qb)
5	I	RF	19	O	SC/D(QA)
6	—	GND	20	—	GND
7	O	RDY	21	—	V _{CC}
8	—	GND	22	O	CKR
9	—	V _{CC}	23	O	SO
10	O	RVS(QJ)	24	—	V _{CC}
11	O	Q7(Qh)	25	I	REFCLK
12	O	Q6(Qg)	26	I	MODE
13	O	Q5(Qf)	27	I	SI(INB-)
14	O	Q4(Qi)	28	I	SI(INB+)

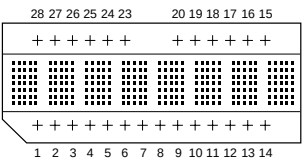
- INPUTS**
- A/B : SERIAL DATA INPUT SELECT
 - BISTEN : BUILT-IN SELF-TEST ENABLE
 - INA+, INA- : SERIAL DATA A
 - INB+, INB- : SERIAL DATA B
 - MODE : DECODER MODE SELECT
 - REFCLK : REFERENCE CHECK
 - RF : REFRAME ENABLE
 - SI : STATUS
- OUTPUTS**
- CKR : CLOCK READ
 - Q0(Qb)-Q7(Qh) : PARALLEL DATA
 - RDY : DATA OUTPUT READY
 - RVS(QJ) : RECEIVED VIOLATION SYMBOL
 - SC/D(QA) : SPECIAL CHARACTER/DATA SELECT
 - SO : STATUS



HDSP-2111 (HP)

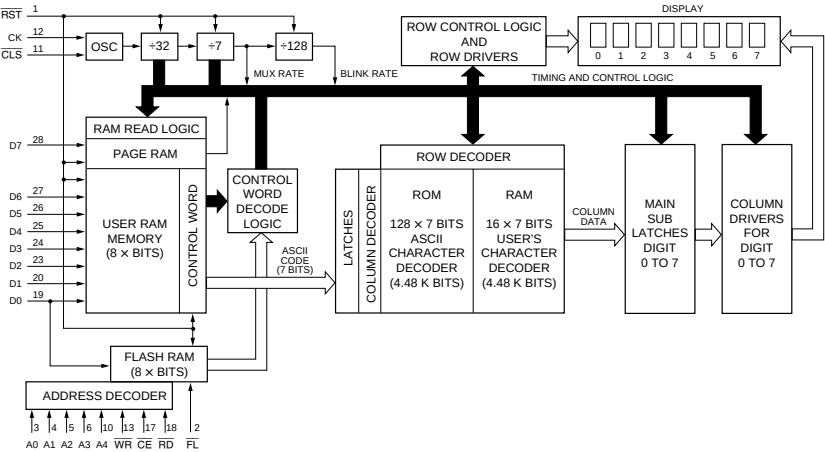
8-COLUMN DISPLAY (5x7-DOT) WITH DECODER AND DRIVER

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	RST	15	—	GND
2	I	FL	16	—	GND
3	I	A0	17	I	CE
4	I	A1	18	I	RD
5	I	A2	19	I	D0
6	I	A3	20	I	D1
7	I	STR	21	—	—
8	I	STR	22	—	—
9	I	STR	23	I	D2
10	I	A4	24	I	D3
11	I	CLS	25	I	D4
12	I	CK	26	I	D5
13	I	WR	27	I	D6
14	—	V _{DD}	28	I	D7

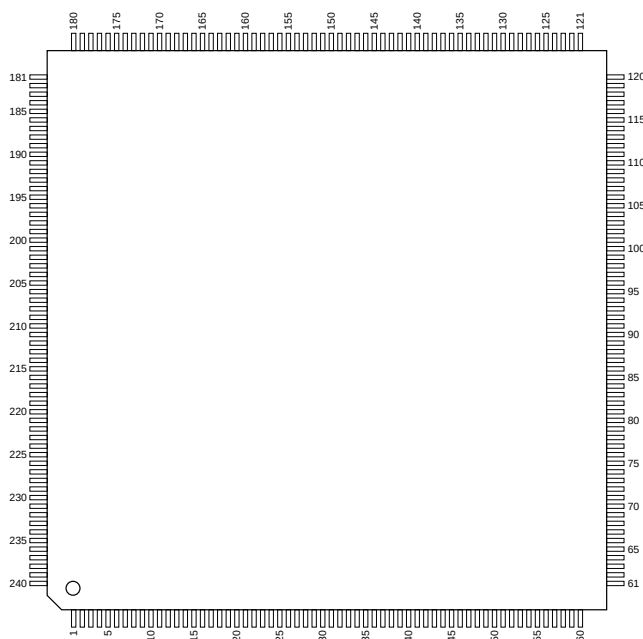
- INPUTS**
- A0 - A4 : ADDRESS
 - CE : CHIP ENABLE
 - CK : CLOCK
 - CLS : CLOCK SELECT
 - D0 - D7 : DATA
 - FL : FLASH RAM
 - RD : READ
 - RST : RESET
 - STR : SUBSTR BIAS
 - WR : WRITE



EPF10K100ARC240-3 (ALTERA)

EMBEDDED PROGRAMMABLE LOGIC DEVICE

—TOP VIEW—

**INPUTS**

CE : CHIP ENABLE
 CLKUSR : OPTIONAL USER-SUPPLIED CLOCK
 CONFIG : CONFIGURATION CONTROL
 CS, CS : CHIP SELECT
 DCLK : CLOCK
 DEV CLR : CLEAR ON DEVICE
 DEV OE : OUTPUT ENABLE ON DEVICE
 IN : IN
 MSEL0, MSEL1 : 2-BIT CONFIGURATION
 RS : READ STROBE
 TCK : TEST CLOCK
 TDI : TEST DATA
 TMS : TEST MODE SELECT
 WS : WRITE STROBE

OUTPUTS

CEO : CHIP ENABLE
 CONF DONE : STATUS
 INIT DONE : STATUS PIN
 RDY/BSY : READY
 STATUS : STATUS
 TDO : TEST DATA
 TRST : TEST RESET

INPUTS/OUTPUTS

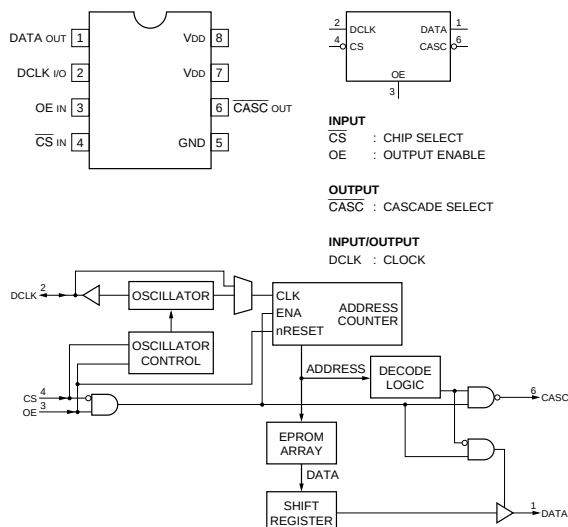
DATA0 - DATA7 : DATA
 I/O : I/O

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TCK	61	I/O	I/O	121	I	CONFIG	181	I/O	DATA1, I/O
2	I/O	CONF DONE	62	I/O	I/O	122	—	V _{CC}	182	I/O	DATA2, I/O
3	O	CEO	63	I/O	I/O	123	I	MSEL1	183	I/O	DATA3, I/O
4	O	TDO	64	I/O	I/O	124	I	MSEL0	184	I/O	I/O
5	—	V _{CC}	65	I/O	I/O	125	—	GND	185	I/O	DATA4, I/O
6	I/O	I/O	66	I/O	I/O	126	I/O	I/O	186	I/O	DATA5, I/O
7	I/O	I/O	67	I/O	I/O	127	I/O	I/O	187	I/O	I/O
8	I/O	I/O	68	I/O	I/O	128	I/O	I/O	188	I/O	DATA6, I/O
9	I/O	I/O	69	—	GND	129	I/O	I/O	189	—	V _{CC}
10	—	GND	70	I/O	I/O	130	—	V _{CC}	190	I/O	DATA7, I/O
11	I/O	CLKUSR, I/O	71	I/O	I/O	131	I/O	I/O	191	I/O	I/O
12	I/O	I/O	72	I/O	I/O	132	I/O	I/O	192	I/O	I/O
13	I/O	I/O	73	I/O	I/O	133	I/O	I/O	193	I/O	I/O
14	I/O	I/O	74	I/O	I/O	134	I/O	I/O	194	I/O	I/O
15	I/O	I/O	75	I/O	I/O	135	—	GND	195	I/O	I/O
16	—	V _{CC}	76	I/O	I/O	136	I/O	I/O	196	I/O	I/O
17	I/O	I/O	77	—	V _{CC}	137	I/O	I/O	197	—	GND
18	I/O	I/O	78	I/O	I/O	138	I/O	I/O	198	I/O	I/O
19	I/O	I/O	79	I/O	I/O	139	I/O	I/O	199	I/O	I/O
20	I/O	I/O	80	I/O	I/O	140	—	V _{CC}	200	I/O	I/O
21	I/O	I/O	81	I/O	I/O	141	I/O	I/O	201	I/O	I/O
22	—	GND	82	I/O	I/O	142	I/O	I/O	202	I/O	I/O
23	I/O	RDY/BSY, I/O	83	I/O	I/O	143	I/O	I/O	203	I/O	I/O
24	I/O	I/O	84	I/O	I/O	144	I/O	I/O	204	I/O	I/O
25	I/O	I/O	85	—	GND	145	—	GND	205	—	V _{CC}
26	I/O	INIT DONE, I/O	86	I/O	I/O	146	I/O	I/O	206	I/O	I/O
27	—	V _{CC}	87	I/O	I/O	147	I/O	I/O	207	I/O	I/O
28	I/O	I/O	88	I/O	I/O	148	I/O	I/O	208	I/O	I/O
29	I/O	I/O	89	—	V _{CC}	149	I/O	I/O	209	I/O	DEV CLR, I/O
30	I/O	I/O	90	I/O	IN, I/O	150	—	V _{CC}	210	I/O	IN, I/O
31	I/O	I/O	91	I/O	CLK, I/O	151	I/O	I/O	211	I/O	CLK, I/O
32	—	GND	92	I/O	IN, I/O	152	I/O	I/O	212	I/O	IN, I/O
33	I/O	I/O	93	—	GND	153	I/O	I/O	213	I/O	DEV OE, I/O
34	I/O	I/O	94	I/O	I/O	154	I/O	I/O	214	I/O	I/O
35	I/O	I/O	95	I/O	I/O	155	—	GND	215	I/O	I/O
36	I/O	I/O	96	—	V _{CC}	156	I/O	I/O	216	—	GND
37	—	V _{CC}	97	I/O	I/O	157	I/O	I/O	217	I/O	I/O
38	I/O	I/O	98	I/O	I/O	158	I/O	I/O	218	I/O	I/O
39	I/O	I/O	99	I/O	I/O	159	I/O	I/O	219	I/O	I/O
40	I/O	I/O	100	I/O	I/O	160	I/O	V _{CC}	220	I/O	I/O
41	I/O	I/O	101	I/O	I/O	161	I/O	I/O	221	I/O	I/O
42	—	GND	102	I/O	I/O	162	I/O	I/O	222	I/O	I/O
43	I/O	I/O	103	I/O	I/O	163	I/O	I/O	223	I/O	I/O
44	I/O	I/O	104	—	GND	164	I/O	I/O	224	—	V _{CC}
45	I/O	I/O	105	I/O	I/O	165	—	GND	225	I/O	I/O
46	I/O	I/O	106	I/O	I/O	166	I/O	I/O	226	I/O	I/O
47	—	V _{CC}	107	I/O	I/O	167	I/O	I/O	227	I/O	I/O
48	I/O	I/O	108	I/O	I/O	168	I/O	I/O	228	I/O	I/O
49	I/O	I/O	109	I/O	I/O	169	I/O	I/O	229	I/O	I/O
50	I/O	I/O	110	I/O	I/O	170	—	V _{CC}	230	I/O	I/O
51	I/O	I/O	111	I/O	I/O	171	I/O	I/O	231	I/O	I/O
52	—	GND	112	—	V _{CC}	172	I/O	I/O	232	—	GND
53	I/O	I/O	113	I/O	I/O	173	I/O	I/O	233	I/O	I/O
54	I/O	I/O	114	I/O	I/O	174	I/O	I/O	234	I/O	I/O
55	I/O	I/O	115	I/O	I/O	175	I/O	I/O	235	I/O	I/O
56	I/O	I/O	116	I/O	I/O	176	—	GND	236	I/O	RS, I/O
57	—	V _{CC}	117	I/O	I/O	177	I	TDI	237	I/O	I/O
58	I	TMS	118	I/O	I/O	178	I	CE	238	I/O	WS, I/O
59	O	TRST	119	I/O	I/O	179	I	DCLK	239	I/O	CS, I/O
60	O	STATUS	120	I/O	I/O	180	I/O	DATA0, I/O	240	I/O	CS, I/O

EPC1PC8 (ALTERA)

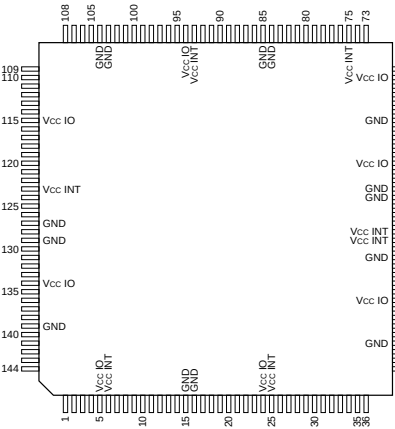
C-MOS SERIAL EPROM

—TOP VIEW—



EPF10K20TC144-3 (ALTERA)

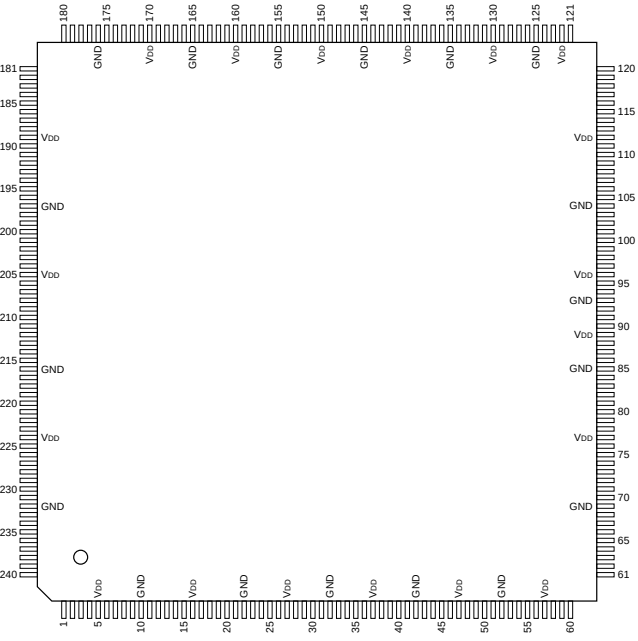
EMBEDDED PROGRAMMABLE LOGIC DEVICE
—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TCLK	37	I/O	I/O	73	I/O	I/O	109	I/O	DATA1
2	I/O	CONF DONE	38	I/O	I/O	74	I	CONFIG	110	I/O	DATA2
3	I	CEO	39	I/O	I/O	75	—	Vcc INT	111	I/O	DATA3
4	O	TDO	40	—	GND	76	I	MSEL1	112	I/O	DATA4
5	—	Vcc IO	41	I/O	I/O	77	I	MSEL0	113	I/O	DATA5
6	—	Vcc INT	42	I/O	I/O	78	I/O	I/O	114	I/O	DATA6
7	I	CLKUSR	43	I/O	I/O	79	I/O	I/O	115	—	Vcc IO
8	I/O	I/O	44	I/O	I/O	80	I/O	I/O	116	I/O	DATA7
9	I/O	I/O	45	—	Vcc IO	81	I/O	I/O	117	I/O	I/O
10	I/O	I/O	46	I/O	I/O	82	I/O	I/O	118	I/O	I/O
11	I/O	RDY BSY	47	I/O	I/O	83	I/O	I/O	119	I/O	I/O
12	I/O	I/O	48	I/O	I/O	84	—	GND	120	I/O	I/O
13	I/O	I/O	49	I/O	I/O	85	—	GND	121	I/O	I/O
14	I/O	INT DONE	50	—	GND	86	I/O	I/O	122	I/O	DEV CLR
15	—	GND	51	I/O	I/O	87	I/O	I/O	123	—	Vcc INT
16	—	GND	52	—	Vcc INT	88	I/O	I/O	124	I/O	I/O
17	I/O	I/O	53	—	Vcc INT	89	I/O	I/O	125	I	GCLK0
18	I/O	I/O	54	I/O	I/O	90	I/O	I/O	126	I/O	I/O
19	I/O	I/O	55	I	GCLK1	91	I/O	I/O	127	—	GND
20	I/O	I/O	56	I/O	I/O	92	I/O	I/O	128	I	DEV OE
21	I/O	I/O	57	—	GND	93	—	Vcc INT	129	—	GND
22	I/O	I/O	58	—	GND	94	—	Vcc IO	130	I/O	I/O
23	I/O	I/O	59	I/O	I/O	95	I/O	I/O	131	I/O	I/O
24	—	Vcc IO	60	I/O	I/O	96	I/O	I/O	132	I/O	I/O
25	—	Vcc INT	61	—	Vcc IO	97	I/O	I/O	133	I/O	I/O
26	I/O	I/O	62	I/O	I/O	98	I/O	I/O	134	—	Vcc IO
27	I/O	I/O	63	I/O	I/O	99	I/O	I/O	135	I/O	I/O
28	I/O	I/O	64	I/O	I/O	100	I/O	I/O	136	I/O	I/O
29	I/O	I/O	65	I/O	I/O	101	I/O	I/O	137	I/O	I/O
30	I/O	I/O	66	—	GND	102	I/O	I/O	138	I/O	I/O
31	I/O	I/O	67	I/O	I/O	103	—	GND	139	—	GND
32	I/O	I/O	68	I/O	I/O	104	—	GND	140	I/O	I/O
33	I/O	I/O	69	I/O	I/O	105	I	TDI	141	I/O	RS
34	I	TMS	70	I/O	I/O	106	I	CE	142	I/O	WS
35	O	STATUS	71	—	Vcc IO	107	I	DCLK	143	I/O	CS
36	I/O	I/O	72	I/O	I/O	108	I/O	DATA0	144	I/O	CS

EPF10K50VRC240-3 (ALTERA)

C-MOS EMBEDDED PROGRAMMABLE LOGIC DEVICE
—TOP VIEW—

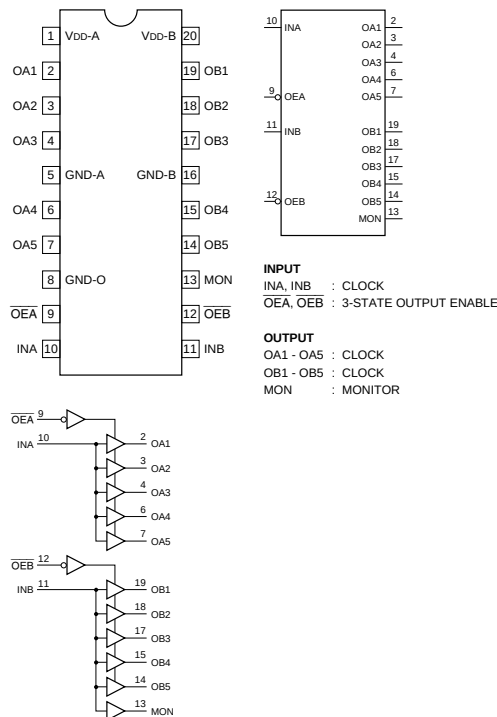


PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	TCK	61	I/O	I/O	121	I	CONFIG	181	I/O	DATA1, I/O
2	I/O	CONF DONE	62	I/O	I/O	122	—	Vpp	182	I/O	DATA2, I/O
3	I	CEO	63	I/O	I/O	123	I	MSEL1	183	I/O	DATA3, I/O
4	O	TDO	64	I/O	I/O	124	I	MSEL0	184	I/O	I/O
5	—	Vpp	65	I/O	I/O	125	—	GND	185	I/O	DATA4, I/O
6	I/O	I/O	66	I/O	I/O	126	I/O	I/O	186	I/O	DATA5, I/O
7	I/O	I/O	67	I/O	I/O	127	I/O	I/O	187	I/O	I/O
8	I/O	I/O	68	I/O	I/O	128	I/O	I/O	188	I/O	DATA6, I/O
9	I/O	I/O	69	—	GND	129	I/O	I/O	189	—	Vpp
10	—	GND	70	I/O	I/O	130	—	Vpp	190	I/O	DATA7, I/O
11	I/O	CLKUSR, I/O	71	I/O	I/O	131	I/O	I/O	191	I/O	I/O
12	I/O	I/O	72	I/O	I/O	132	I/O	I/O	192	I/O	I/O
13	I/O	I/O	73	I/O	I/O	133	I/O	I/O	193	I/O	I/O
14	I/O	I/O	74	I/O	I/O	134	I/O	I/O	194	I/O	I/O
15	I/O	I/O	75	I/O	I/O	135	—	GND	195	I/O	I/O
16	—	Vpp	76	I/O	I/O	136	I/O	I/O	196	I/O	I/O
17	I/O	I/O	77	—	Vpp	137	I/O	I/O	197	—	GND
18	I/O	I/O	78	I/O	I/O	138	I/O	I/O	198	I/O	I/O
19	I/O	I/O	79	I/O	I/O	139	I/O	I/O	199	I/O	I/O
20	I/O	I/O	80	I/O	I/O	140	—	Vpp	200	I/O	I/O
21	I/O	I/O	81	I/O	I/O	141	I/O	I/O	201	I/O	I/O
22	—	GND	82	I/O	I/O	142	I/O	I/O	202	I/O	I/O
23	I/O	RDY/BSY, I/O	83	I/O	I/O	143	I/O	I/O	203	I/O	I/O
24	I/O	I/O	84	I/O	I/O	144	I/O	I/O	204	I/O	I/O
25	I/O	I/O	85	—	GND	145	—	GND	205	—	Vpp
26	I/O	INIT DONE, I/O	86	I/O	I/O	146	I/O	I/O	206	I/O	I/O
27	—	Vpp	87	I/O	I/O	147	I/O	I/O	207	I/O	I/O
28	I/O	I/O	88	I/O	I/O	148	I/O	I/O	208	I/O	I/O
29	I/O	I/O	89	—	Vpp	149	I/O	I/O	209	I/O	DEV CLR, I/O
30	I/O	I/O	90	I/O	IN, I/O	150	—	Vpp	210	I/O	IN, I/O
31	I/O	I/O	91	I/O	CLK, I/O	151	I/O	I/O	211	I/O	CLK, I/O
32	—	GND	92	I/O	IN, I/O	152	I/O	I/O	212	I/O	IN, I/O
33	I/O	I/O	93	—	GND	153	I/O	I/O	213	I/O	DEV OE, I/O
34	I/O	I/O	94	I/O	I/O	154	I/O	I/O	214	I/O	I/O
35	I/O	I/O	95	I/O	I/O	155	—	GND	215	I/O	I/O
36	I/O	I/O	96	—	Vpp	156	I/O	I/O	216	—	GND
37	—	Vpp	97	I/O	I/O	157	I/O	I/O	217	I/O	I/O
38	I/O	I/O	98	I/O	I/O	158	I/O	I/O	218	I/O	I/O
39	I/O	I/O	99	I/O	I/O	159	I/O	I/O	219	I/O	I/O
40	I/O	I/O	100	I/O	I/O	160	I/O	Vpp	220	I/O	I/O
41	I/O	I/O	101	I/O	I/O	161	I/O	I/O	221	I/O	I/O
42	—	GND	102	I/O	I/O	162	I/O	I/O	222	I/O	I/O
43	I/O	I/O	103	I/O	I/O	163	I/O	I/O	223	I/O	I/O
44	I/O	I/O	104	—	GND	164	I/O	I/O	224	—	Vpp
45	I/O	I/O	105	I/O	I/O	165	—	GND	225	I/O	I/O
46	I/O	I/O	106	I/O	I/O	166	I/O	I/O	226	I/O	I/O
47	—	Vpp	107	I/O	I/O	167	I/O	I/O	227	I/O	I/O
48	I/O	I/O	108	I/O	I/O	168	I/O	I/O	228	I/O	I/O
49	I/O	I/O	109	I/O	I/O	169	I/O	I/O	229	I/O	I/O
50	I/O	I/O	110	I/O	I/O	170	—	Vpp	230	I/O	I/O
51	I/O	I/O	111	I/O	I/O	171	I/O	I/O	231	I/O	I/O
52	—	GND	112	—	Vpp	172	I/O	I/O	232	—	GND
53	I/O	I/O	113	I/O	I/O	173	I/O	I/O	233	I/O	I/O
54	I/O	I/O	114	I/O	I/O	174	I/O	I/O	234	I/O	I/O
55	I/O	I/O	115	I/O	I/O	175	I/O	I/O	235	I/O	I/O
56	I/O	I/O	116	I/O	I/O	176	—	GND	236	I/O	RS, I/O
57	—	Vpp	117	I/O	I/O	177	I	TDI	237	I/O	I/O
58	I	TMS	118	I/O	I/O	178	I	CE	238	I/O	WS, I/O
59	O	TRST	119	I/O	I/O	179	I	DCLK	239	I/O	CS, I/O
60	O	STATUS	120	I/O	I/O	180	I	DATA0	240	I/O	CS, I/O

IDT49FCT805ASO-TL (IDT)

C-MOS 8-BIT NON-INVERTING CLOCK DRIVER

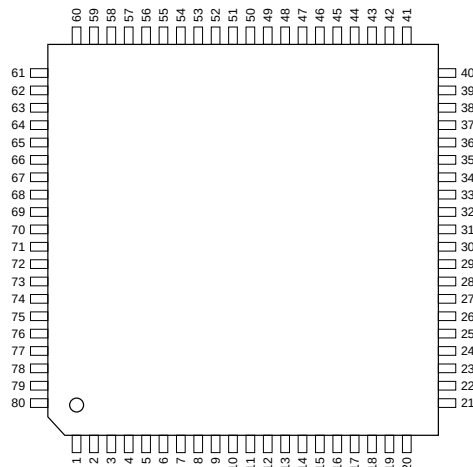
—TOP VIEW—



IDT7007L15PF (IDT)

256K (32,768x8)-BIT DUAL-PORT SRAM

—TOP VIEW—

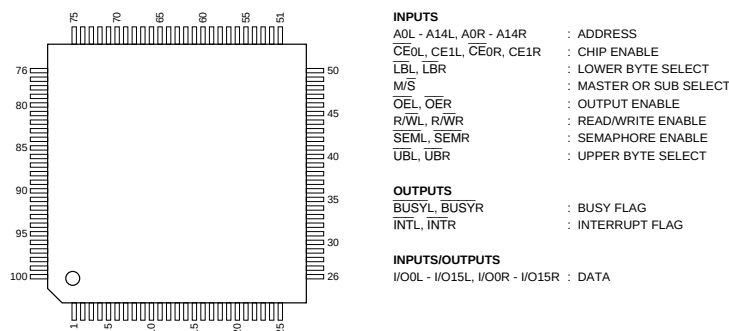


PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	NC	21	I/O	I/O7r	41	—	NC	61	—	NC
2	I/O	I/O2L	22	—	NC	42	—	NC	62	—	NC
3	I/O	I/O3L	23	I	OEr	43	I	A4R	63	I	A6L
4	I/O	I/O4L	24	I	R/Wr	44	I	A3R	64	I	A7L
5	I/O	I/O5L	25	I	SEMr	45	I	A2R	65	I	A8L
6	—	GND	26	I	CEr	46	I	A1R	66	I	A9L
7	I/O	I/O6L	27	—	NC	47	I	A0R	67	I	A10L
8	I/O	I/O7L	28	I	A14r	48	O	INTR	68	I	A11L
9	—	VDD	29	I	A13r	49	O	BUSYr	69	I	A12L
10	—	NC	30	—	GND	50	I	M/S	70	—	VDD
11	—	GND	31	I	A12r	51	—	GND	71	I	A13L
12	I/O	I/O0r	32	I	A11r	52	O	BUSYL	72	I	A14L
13	I/O	I/O1r	33	I	A10r	53	O	INTL	73	—	NC
14	I/O	I/O2r	34	I	A9r	54	I	A0L	74	I	CEL
15	—	VDD	35	I	A8r	55	I	A1L	75	I	SEML
16	I/O	I/O3r	36	I	A7r	56	I	A2L	76	I	R/WL
17	I/O	I/O4r	37	I	A6r	57	I	A3L	77	I	OEL
18	I/O	I/O5r	38	I	A5r	58	I	A4L	78	—	NC
19	I/O	I/O6r	39	—	NC	59	I	A5L	79	I/O	I/O0L
20	—	NC	40	—	NC	60	—	NC	80	I/O	I/O1L

IDT7027L20PF (IDT)

512K (32Kx16)-BIT DUAL-PORT SRAM

—TOP VIEW—



INPUTS
 A0R - A14R, A0L - A14L : ADDRESS
 CER, CEL : CHIP ENABLE
 M/S : CONTROL/CONTROLLED SELECT
 OEr, OEL : OUTPUT ENABLE
 R/WR, R/WL : READ/WRITE ENABLE
 SEMr, SEML : SEMAPHORE ENABLE

OUTPUTS
 BUSYr, BUSYL : BUSY FLAG
 INTr, INTL : INTERRUPT FLAG

INPUTS/OUTPUTS
 I/O0r - I/O7r, I/O0L - I/O7L : DATA

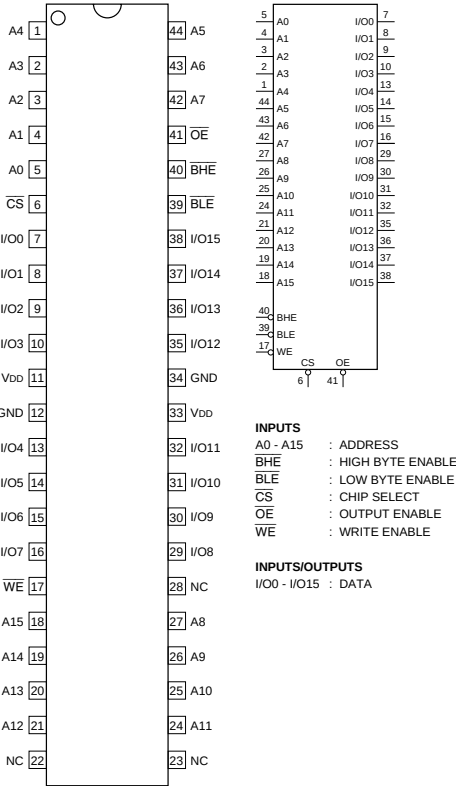
OTHER
 NC : NO CONNECTION

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	A9L	26	I/O	I/O9L	51	I/O	I/O10R	76	I	A8R
2	I	A10L	27	I/O	I/O8L	52	I/O	I/O11R	77	I	A7R
3	I	A11L	28	—	Vcc	53	I/O	I/O12R	78	I	A6R
4	I	A12L	29	I/O	I/O7L	54	I/O	I/O13R	79	I	A5R
5	I	A13L	30	I/O	I/O6L	55	I/O	I/O14R	80	I	A4R
6	I	A14L	31	I/O	I/O5L	56	I/O	I/O15R	81	I	A3R
7	—	NC	32	I/O	I/O4L	57	—	GND	82	I	A2R
8	—	NC	33	I/O	I/O3L	58	—	GND	83	I	A1R
9	—	NC	34	I/O	I/O2L	59	I	OER	84	I	A0R
10	I	LBL	35	—	GND	60	I	R/WR	85	O	INTR
11	I	UBL	36	I/O	I/O1L	61	—	GND	86	O	BUSYr
12	I	CE0L	37	I/O	I/O0L	62	I	SEMr	87	I	M/S
13	I	CE1L	38	—	GND	63	I	CE1R	88	—	GND
14	I	SEML	39	I/O	I/O0R	64	I	CE0R	89	O	BUSYL
15	—	Vcc	40	I/O	I/O1R	65	I	UBR	90	O	INTL
16	I	R/WL	41	I/O	I/O2R	66	I	LBR	91	—	NC
17	I	OEL	42	I/O	I/O3R	67	—	NC	92	I	A0L
18	—	GND	43	I/O	I/O4R	68	—	NC	93	I	A1L
19	—	GND	44	I/O	I/O5R	69	—	NC	94	I	A2L
20	I/O	I/O15L	45	I/O	I/O6R	70	I	A14R	95	I	A3L
21	I/O	I/O14L	46	—	Vcc	71	I	A13R	96	I	A4L
22	I/O	I/O13L	47	I/O	I/O7R	72	I	A12R	97	I	A5L
23	I/O	I/O12L	48	I/O	I/O8R	73	I	A11R	98	I	A6L
24	I/O	I/O11L	49	I/O	I/O9R	74	I	A10R	99	I	A7L
25	I/O	I/O10L	50	—	NC	75	I	A9R	100	I	A8L

IDT71V016S15Y-TL (IDT)

1M (64K×16)-BIT SRAM

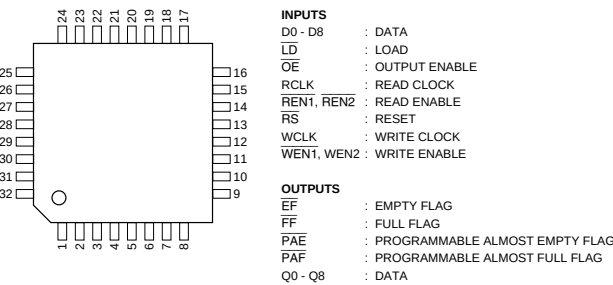
—TOP VIEW—



IDT72V211L20PF (IDT)

SYNC FIFO

—TOP VIEW—

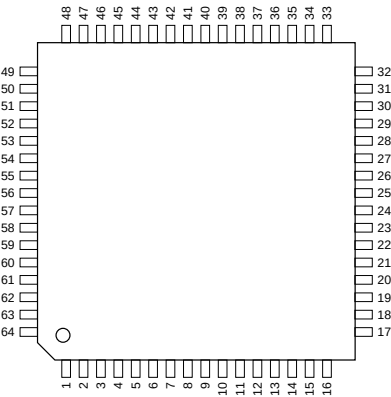


PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	D1	9	I	OE	17	O	Q5	25	I	RS
2	I	D0	10	O	EF	18	O	Q6	26	I	D8
3	O	PAF	11	O	FF	19	O	Q7	27	I	D7
4	O	PAE	12	O	Q0	20	O	Q8	28	I	D6
5	—	GND	13	O	Q1	21	—	Vcc	29	I	D5
6	I	REN1	14	O	Q2	22	I	WEN2/LD	30	I	D4
7	I	RCLK	15	O	Q3	23	I	WCLK	31	I	D3
8	I	REN2	16	O	Q4	24	I	WEN1	32	I	D2

IDT72271L10PF (IDT)
IDT72V261L15PF (IDT)

SUPERSYNC FIFO

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	WEN	17	I	D6	33	—	GND	49	I	OE
2	I	SEN	18	I	D5	34	O	Q6	50	I	RT
3	I	FS	19	I	D4	35	O	Q7	51	I	REN
4	—	Vcc	20	I	D3	36	O	Q8	52	I	RCLK
5	—	Vcc	21	I	D2	37	—	NC	53	O	EF/OR
6	—	GND	22	I	D1	38	—	NC	54	O	PAE
7	—	GND	23	I	D0	39	—	GND	55	—	Vcc
8	—	GND	24	—	GND	40	—	NC	56	O	HF
9	—	GND	25	O	Q0	41	—	NC	57	O	PAF
10	—	GND	26	O	Q1	42	—	NC	58	O	FF/IR
11	—	GND	27	—	GND	43	—	Vcc	59	—	GND
12	—	GND	28	O	Q2	44	—	NC	60	I	FWFT/SI
13	—	GND	29	O	Q3	45	—	NC	61	I	LD
14	—	GND	30	—	Vcc	46	—	GND	62	I	MRS
15	I	D8	31	O	Q4	47	—	NC	63	I	PRS
16	I	D7	32	O	Q5	48	—	NC	64	I	WCLK

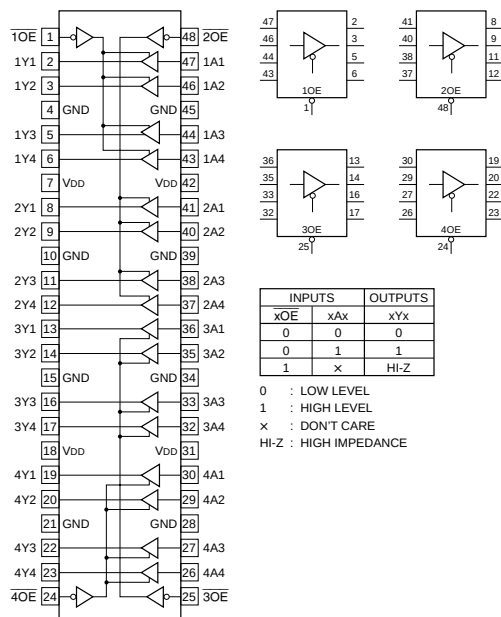
INPUTS
D0 - D8 : DATA
FS : FREQUENCY SELECT
FWFT : FIRST WORD FALL THROUGH
LD : LOAD
MRS : MASTER RESET
OE : OUTPUT ENABLE
PRS : PARTIAL RESET
RCLK : READ CLOCK
REN : READ ENABLE
RT : RETRANSMIT
SEN : SERIAL ENABLE
SI : SERIAL
WCLK : WRITE CLOCK
WEN : WRITE ENABLE

OUTPUTS
EF : EMPTY FLAG
FF : FULL FLAG
PAE : PROGRAMMABLE ALMOST EMPTY FLAG
PAF : PROGRAMMABLE ALMOST FULL FLAG
Q0 - Q8 : DATA

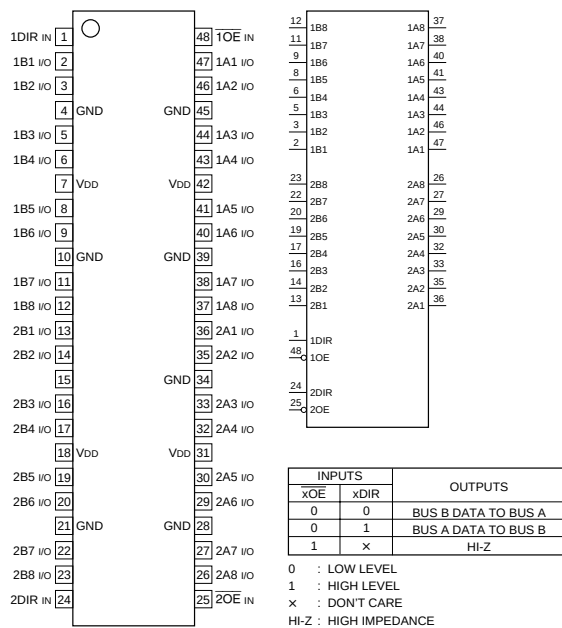
OTHER
NC : NO CONNECTION

IDT74FCT16244ATPV (INTEGRATED DEVICE TECHNOLOGY)
C-MOS 16-BIT BUFFER/DRIVER

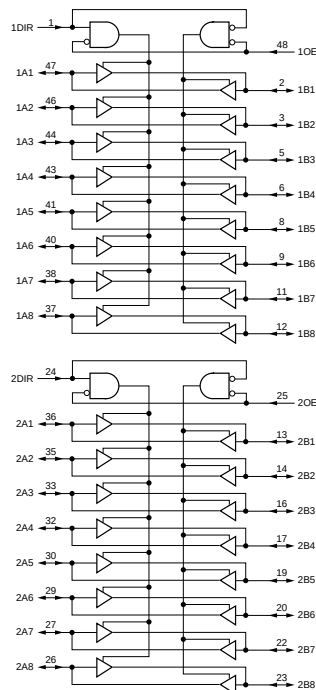
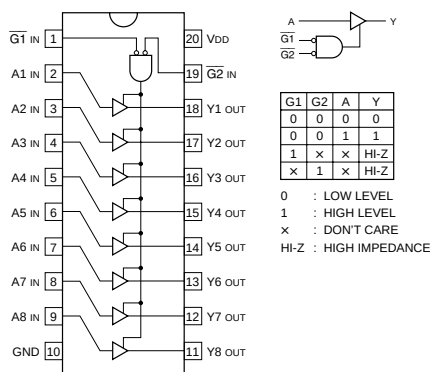
—TOP VIEW—


IDT74FCT16245ATPV (IDT)
SN74LVTH16245ADGGR (TI)
C-MOS 16-BIT BIDIRECTIONAL TRANSCEIVER

—TOP VIEW—


IDT74FCT541ATSO-TL (IDT)
SN74LVTH541NS-E05 (TI)
OCTAL BUS BUFFER WITH 3-STATE OUTPUTS

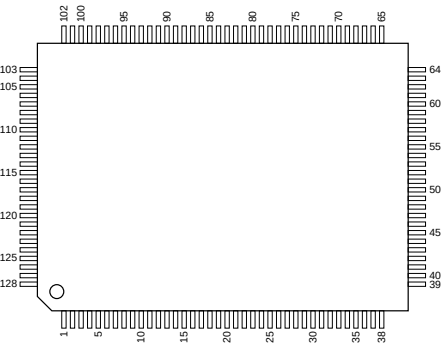
—TOP VIEW—



IDT77155L155PX (IDT)

ATM USER-NETWORK INTERFACE

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	GND	33	I	RRCLK—	65	—	GND	97	I	RATE1
2	I	TBYP	34	I	RRCLK+	66	I	TSEN	98	I	RATE0
3	I/O	ATP2	35	—	RAVS4	67	I	RFCLK	99	I	VCLK
4	—	TAVD1	36	—	RAVD2	68	I	RRDENB	100	I	CSB
5	—	TAVS1	37	—	RAVS2	69	O	RCA	101	I	RSTB
6	—	TAVD2	38	—	GND	70	O	RDAT0	102	—	GND
7	—	TAVS2	39	—	GND	71	O	RDAT1	103	—	GND
8	—	TAVD3	40	I/O	ATP1	72	—	GND	104	I	WRB
9	I	TRCLK—	41	I	RBYP	73	—	Vcc	105	I	RDB
10	I	TRCLK+	42	I/O	LF+	74	O	RDAT2	106	—	GND
11	—	TAVS3	43	I/O	LF—	75	O	RDAT3	107	—	Vcc
12	—	TXVcc	44	I/O	LFO	76	O	RDAT4	108	O	INTB
13	O	TXC+	45	—	GND	77	O	RDAT5	109	I/O	D0
14	O	TXC—	46	—	GND	78	O	RDAT6	110	I/O	D1
15	O	TXD+	47	—	GND	79	O	RDAT7	111	I/O	D2
16	O	TXD—	48	—	GND	80	—	GND	112	I/O	D3
17	—	TXGND	49	—	GND	81	—	Vcc	113	—	GND
18	—	Vcc	50	I	XOFF	82	O	RXPRTY	114	—	Vcc
19	—	GND	51	O	TCP	83	O	RSOC	115	I/O	D4
20	—	Vcc	52	I	TGFC	84	I	TFCLK	116	I/O	D5
21	—	GND	53	O	TFPO	85	I	TWREN8	117	I/O	D6
22	O	RXDO+	54	O	TCLK	86	O	TCA	118	I/O	D7
23	O	RXDO—	55	—	Vcc	87	I	TDAT0	119	I	A0
24	—	RAVD3	56	—	GND	88	I	TDAT1	120	I	A1
25	I	RXD—	57	O	RCLK	89	I	TDAT2	121	I	A2
26	I	RXD+	58	O	RFP	90	I	TDAT3	122	I	A3
27	I	ALOS—	59	O	RGFC	91	I	TDAT4	123	I	A4
28	I	ALOS+	60	O	RCP	92	I	TDAT5	124	I	A5
29	—	RAVS3	61	—	Vcc	93	I	TDAT6	125	I	A6
30	—	RAVD1	62	—	GND	94	I	TDAT7	126	I	A7/TRS
31	—	RAVS1	63	O	RALM	95	I	TXPRTY	127	I	ALE
32	—	RAVD4	64	—	GND	96	I	TSOC	128	—	GND

INPUTS

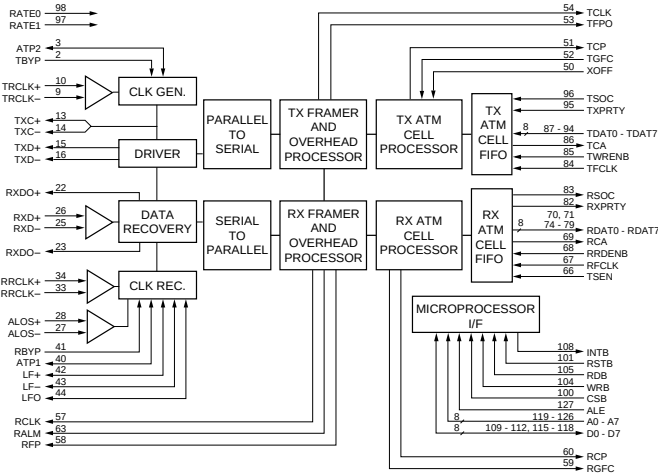
A0 - A7	: ADDRESS BUS
ALE	: ADDRESS LATCH ENABLE
ALOS+, ALOS—	: ANALOG LOSS
CSB	: CHIP SELECT
RATE0, RATE1	: FRAME FORMAT AND LINE RATE SELECT
RBYP	: RECEIVE BYPASS
RDB	: READ ENABLE
RFCLK	: RECEIVE READ CLOCK
RRCLK+, RRCLK—	: RECEIVE DIFFERENTIAL REFERENCE CLOCK
RRDENB	: RECEIVE READ ENABLE
RSTB	: RESET
RXD+, RXD—	: RECEIVE DIFFERENTIAL DATA
TBYP	: TRANSMIT BYPASS
TDAT0 - TDAT7	: TRANSMIT CELL DATA
TFCLK	: TRANSMIT WRITE CLOCK
TGFC	: TRANSMIT GENERIC FLOW CONTROL
TRCLK+, TRCLK—	: TRANSMIT DIFFERENTIAL REFERENCE CLOCK
TXPRTY	: TRANSMIT PARITY
TSEN	: TRISTATE ENABLE
TSOC	: TRANSMIT START OF CELL
TWREN8	: TRANSMIT WRITE ENABLE
VCLK	: VECTOR CLOCK
WRB	: WRITE STROBE
XOFF	: TRANSMIT OFF

OUTPUTS

INTB	: INTERRUPT
RALM	: RECEIVE ALARM
RCA	: RECEIVE CELL AVAILABLE
RCLK	: RECEIVE CLOCK
RCP	: RECEIVE GENERIC FLOW CONTROL CELL PULSE
RDAT0 - RDAT7	: RECEIVE CELL DATA
RFP	: RECEIVE FRAME PULSE
RGFC	: RECEIVE GENERIC FLOW CONTROL
RSOC	: RECEIVE START OF CELL
RXDO+, RXDO—	: RECEIVE DIFFERENTIAL DATA
RXPRTY	: RECEIVE PARITY
TCA	: TRANSMIT CELL AVAILABLE
TCLK	: TRANSMIT BYTE CLOCK
TCP	: TRANSMIT GENERIC FLOW CONTROL CELL PULSE
TFPO	: FRAMING POSITION
TXC+, TXC—	: TRANSMIT CLOCK
TXD+, TXD—	: TRANSMIT DIFFERENTIAL DATA

INPUTS/OUTPUTS

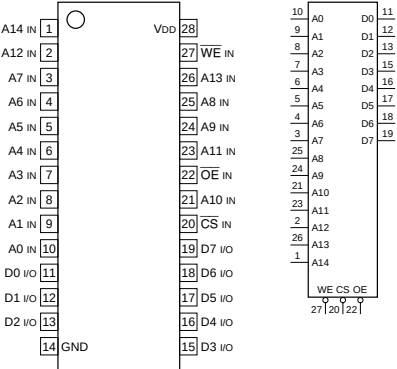
ATP1, ATP2	: ANALOG TEST
D0 - D7	: DATA BUS
LF+, LF—	: LOOP FILTER
LFO	: LOOP FILTER



LC35256DM-70-TLM (SANYO)

C-MOS 256 K (32,768WORD x 8)-BIT SRAM

—TOP VIEW—



A0 - A14	: ADDRESS INPUTS
D0 - D7	: DATA INPUTS/OUTPUTS
CS	: CHIP SELECT INPUT
OE	: OUTPUT ENABLE INPUT
WE	: WRITE ENABLE INPUT

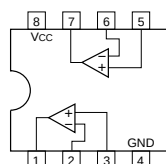
CS	OE	WE	OUTPUTS	FUNCTION
1	x	x	HI-Z	NO SELECTION
0	1	1	HI-Z	OUTPUT DISABLE
0	0	1	D OUT	READ
0	x	0	D IN	WRITE

0	: LOW LEVEL
1	: HIGH LEVEL
x	: DON'T CARE
HI-Z	: HIGH IMPEDANCE

LM393PS (TI) LM393PS-E05

DUAL VOLTAGE COMPARATORS

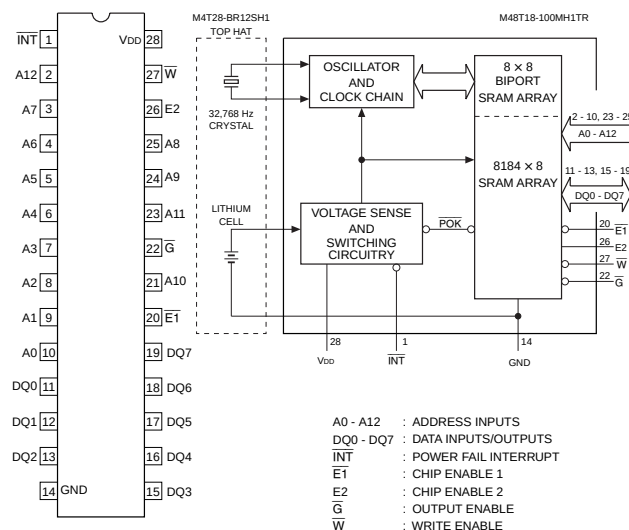
—TOP VIEW—



M48T18-100MH1TR (SGS)

C-MOS 64 K (8,184 × 8)-BIT NON-VOLATILE SRAM AND REAL TIME CLOCK

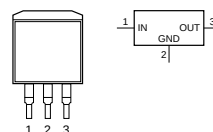
—TOP VIEW—



LM3940IS-3.3 (NS)

LOW DROPOUT REGULATOR

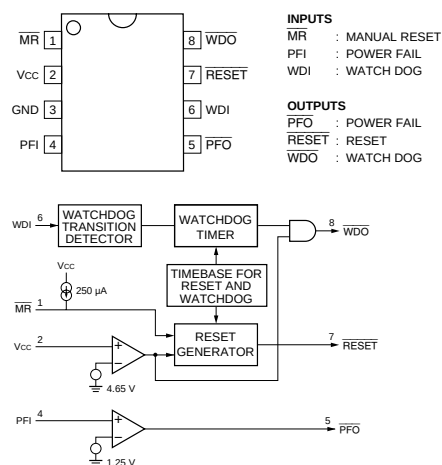
—TOP VIEW—



MAX706CSA (MAXIM) MAX706CSA-TE2

MICROPROCESSOR SUPERVISORY CIRCUIT

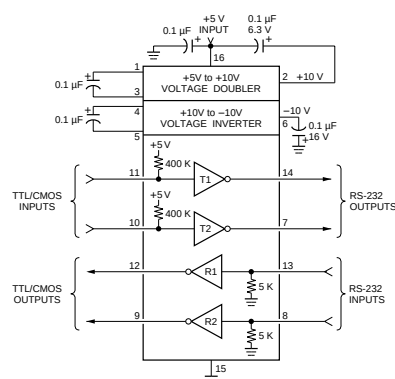
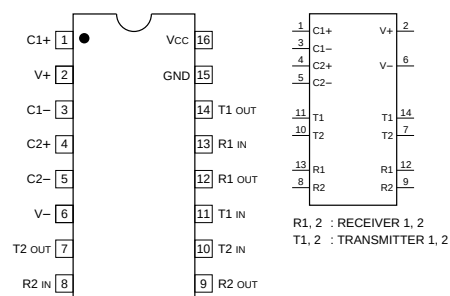
—TOP VIEW—



MAX202CSE (MAXIM) MAX202CSE-T

RS-232 TRANSMITTER/RECEIVER

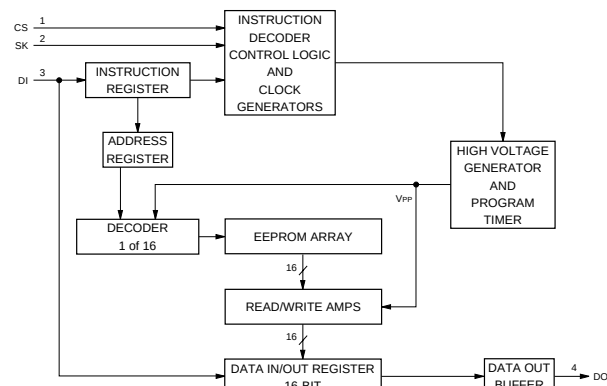
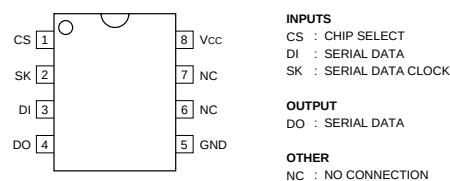
—TOP VIEW—



NM93C56EM8X (FSC)

2,048-BIT SERIAL EEPROM

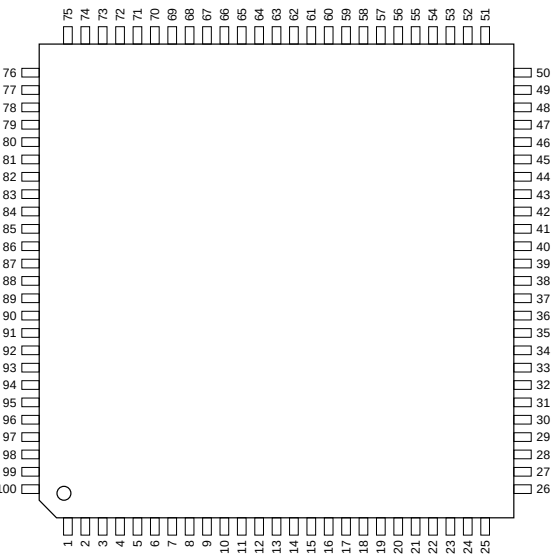
—TOP VIEW—



PM7345-RI (PMC)

ATM USER NETWORK INTERFACE

—TOP VIEW—



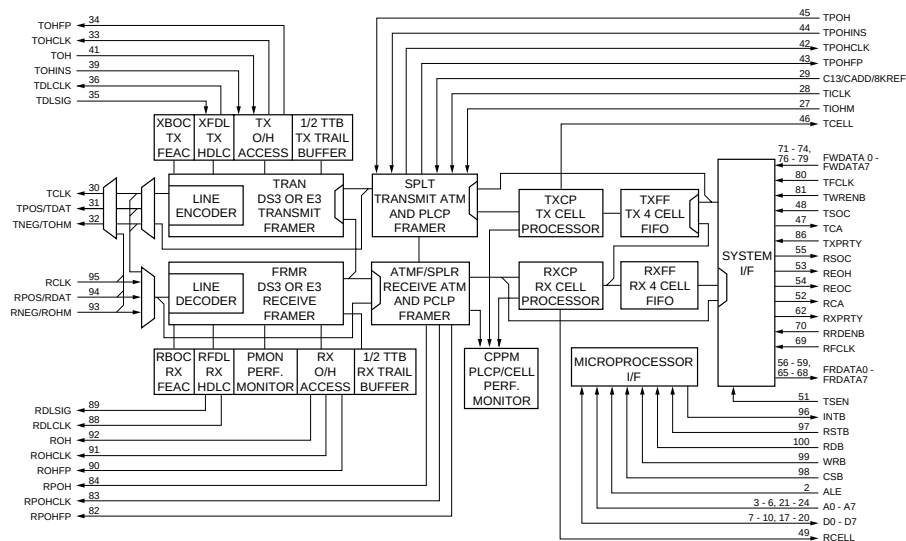
PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	NC	26	—	NC	51	I	TSEN	76	I	FWDATA4
2	I	ALE	27	I	TIOHM	52	O	RFIFOE/RCA/FRCLK	77	I	FWDATA5
3	I	A0	28	I	TICLK	53	O	REOH/LOF	78	I	FWDATA6
4	I	A1	29	I	C13/CADD/8KREF	54	O	REOC/OOF	79	I	FWDATA7
5	I	A2	30	O	TCLK	55	O	RSOC	80	I	FWRB/TFCLK
6	I	A3	31	O	TPOS/TDAT	56	O	FRDATA0	81	I	TWRENB
7	I/O	D0	32	O	TNEG/TOHM	57	O	FRDATA1	82	O	RPOHFP
8	I/O	D1	33	O	TOHCLK	58	O	FRDATA2	83	O	RPOHCLK
9	I/O	D2	34	O	TOHFP	59	O	FRDATA3	84	O	RROH
10	I/O	D3	35	I	TDLSIG	60	—	Vcc	85	—	GND
11	—	Vcc	36	O	TDLCLK	61	—	GND	86	I	TXPRTY
12	—	GND	37	—	Vcc	62	O	RXPRTY	87	—	Vcc
13	—	GND	38	—	GND	63	—	GND	88	O	RDLSIG
14	—	Vcc	39	I	TOHINS	64	—	Vcc	89	O	RDLCLK
15	—	Vcc	40	I	SYFIFOB	65	O	FRDATA4	90	O	ROHFP
16	—	GND	41	I	TOH	66	O	FRDATA5	91	O	ROHCLK
17	I/O	D4	42	O	TPOHCLK	67	O	FRDATA6	92	O	ROH
18	I/O	D5	43	O	TPOHFP	68	O	FRDATA7	93	I	RNEG/ROHM
19	I/O	D6	44	I	TPOHINS	69	I	FRDB/RFCLK	94	I	RPOS/RDAT
20	I/O	D7	45	I	TPOH	70	I	RRDENB	95	I	RCLK
21	I	A4	46	O	TCELL	71	I	FWDATA0	96	O	INTB
22	I	A5	47	O	TFIFOFB/TCA/FWCLK	72	I	FWDATA1	97	I	RSTB
23	I	A6	48	I	TSOC	73	I	FWDATA2	98	I	CSB
24	I	A7	49	O	RCELL	74	I	FWDATA3	99	I	WRB
25	—	NC	50	O	LCD	75	—	GND	100	I	RDB

INPUTS	
8KREF	: 8 kHz REFERENCE
A0 - A7	: ADDRESS BUS
ALE	: ADDRESS LATCH ENABLE
C13/CADD	: TRANSMIT STUFF CONTROL
CSB	: CHIP SELECT
FRDB	: FIFO READ
FWDATA0 - FWDATA7	: TRANSMIT FIFO DATA
FWRB	: FIFO WRITE
RCLK	: RECEIVE CLOCK
RDAT	: RECEIVE DATA
RDB	: READ ENABLE
RFCLK	: READ FIFO CLOCK
RNEG	: RECEIVE NEGATIVE PULSE
ROHM	: RECEIVE OVERHEAD MASK
RPOS	: RECEIVE POSITIVE PULSE
RRDENB	: RECEIVE FIFO READ ENABLE
RSTB	: RESET
SYFIFOB	: SYNCHRONOUS FIFO ENABLE
TDLSIG	: TRANSMIT DATA LINK SIGNAL
TFCLK	: TRANSMIT FIFO WRITE CLOCK
TICLK	: TRANSMIT INPUT CLOCK
TIOHM	: TRANSMIT INPUT OVERHEAD MASK
TOH	: TRANSMIT DS3/E3 OVERHEAD DATA
TOHINS	: TRANSMIT DS3/E3 OVERHEAD INSERTION
TPOH	: TRANSMIT PLCP OVERHEAD DATA
TPOHINS	: TRANSMIT PATH OVERHEAD INSERTION
TSEN	: TRISTATE BUS ENABLE
TSOC	: TRANSMIT START OF CELL
TWRENB	: TRANSMIT FIFO WRITE ENABLE
TXPRTY	: TRANSMIT FIFO WRITE DATA PARITY
WRB	: WRITE STROBE

OUTPUTS	
FRCLK	: RECEIVE CELL CLOCK
FRDATA0 - FRDATA7	: RECEIVE FIFO DATA
FWCLK	: TRANSMIT CELL CLOCK
INTB	: INTERRUPT
LCD	: LOSS OF CELL DELINEATION
LOF	: PLCP LOSS OF FRAME
OOF	: PLCP OUT OF FRAME
RCA	: RECEIVE CELL AVAILABLE
RCELL	: RECEIVE CELL INDICATION
RDLSIG	: RECEIVE DATA LINK SIGNAL
RDLCLK	: RECEIVE DATA LINK CLOCK
REOC	: RECEIVE END OF CELL
REOH	: RECEIVE END OF HEADER
RFIFOE	: RECEIVE FIFO EMPTY
ROH	: RECEIVE DS3/E3 OVERHEAD DATA
ROHCLK	: RECEIVE DS3/E3 OVERHEAD CLOCK
ROHFP	: RECEIVE DS3/E3 OVERHEAD FRAME POSITION
RPOHCLK	: RECEIVE PLCP OVERHEAD CLOCK
RPOH	: RECEIVE PLCP OVERHEAD DATA
RPOHFP	: RECEIVE PLCP OVERHEAD FRAME POSITION
RSOC	: RECEIVE START OF CELL
RXPRTY	: RECEIVE FIFO READ DATA PARITY
TCA	: TRANSMIT CELL AVAILABLE
TCELL	: TRANSMIT CELL INDICATION
TCLK	: TRANSMIT OUTPUT CLOCK
TDAT	: TRANSMIT DATA
TDLCLK	: TRANSMIT DATA LINK CLOCK
TFIFOFB	: TRANSMIT FIFO NOT FULL
TNEG	: TRANSMIT NEGATIVE PULSE
TOHCLK	: TRANSMIT OVERHEAD CLOCK
TOHFP	: TRANSMIT DS3/E3 OVERHEAD FRAME POSITION
TOHM	: TRANSMIT OVERHEAD MASK
TPOHCLK	: TRANSMIT PLCP OVERHEAD CLOCK
TPOHFP	: TRANSMIT PATH OVERHEAD FRAME POSITION
TPOS	: TRANSMIT POSITIVE PULSE

INPUTS/OUTPUTS	
D0 - D7	: BIDIRECTIONAL DATA BUS

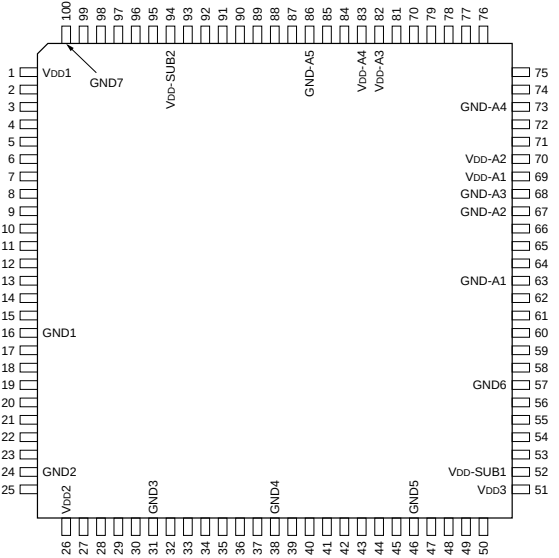
OTHER	
NC	: NO CONNECT



MB86964PFV (FUJITSU)

C-MOS 10BASE-T LAN CONTROLLER

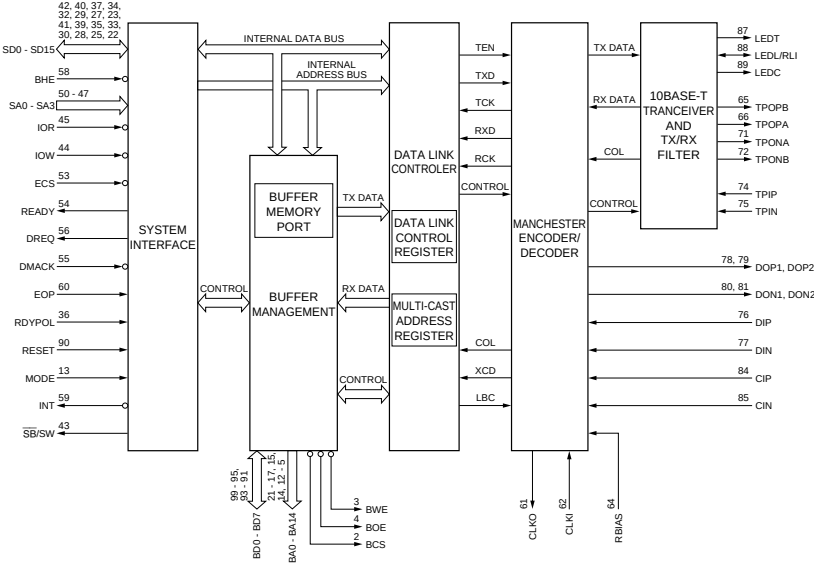
—TOP VIEW—



- INPUT**
- BHE : SYSTEM BUS HIGH ENABLE
 - CIP, CIN : AUJ COLLISION PAIR
 - CLKI : CRYSTAL OSCILLATOR
 - DIP, DIN : AUJ RECEIVE PAIR
 - DMACK : DMA ACKNOWLEDGE
 - ECS : ENABLE CHIP SELECT
 - EOP : END OF PROCESS
 - IOR : I/O READ
 - IOW : I/O WRITE
 - MODE : MODE SELECT
 - RBIAS : BIAS RESISTOR
 - RDYPOL : READY POLARITY
 - RESET : CHIP RESET
 - SA3 - SA0 : SYSTEM ADDRESS BUS
 - TPIP, TPIN : RECEIVE SIGNAL
- OUTPUT**
- BA14 - BA0 : BUFFER MEMORY ADDRESS BUS
 - BCS : BUFFER RAM CHIP SELECT
 - BOE : BUFFER OUTPUT ENABLE
 - BWE : BUFFER WRITE ENABLE
 - CLKO : CRYSTAL OSCILLATOR
 - DON1, DON2 : AUJ TRANSMIT PAIR
 - DOP1, DOP2 : AUJ TRANSMIT PAIR
 - DREQ : DMA REQUEST
 - INT : INTERRUPT REQUEST
 - LEDC : COLLISION LED
 - LEDT : TRANSMIT LED
 - READY : READY
 - SB/SW : SYSTEM BYTE/WORD
 - TPOPA, TPONA : TRANSMIT SIGNAL
 - TPOPB, TPONB : TRANSMIT SIGNAL

PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	—	Vdd1	26	—	Vdd2	51	—	Vdd3	76	I	DIP
2	O	BCS	27	I/O	SD6	52	—	Vdd-SUB1	77	I	DIN
3	O	BWE	28	I/O	SD13	53	I	ECS	78	O	DOP1
4	O	BOE	29	I/O	SD5	54	O	READY	79	O	DOP2
5	O	BA14	30	I/O	SD12	55	I	DMACK	80	O	DON1
6	O	BA13	31	—	GND3	56	O	DREQ	81	O	DON2
7	O	BA12	32	I/O	SD4	57	—	GND6	82	—	Vdd-A3
8	O	BA11	33	I/O	SD11	58	I	BHE	83	—	Vdd-A4
9	O	BA10	34	I/O	SD3	59	O	INT	84	I	CIP
10	O	BA9	35	I/O	SD10	60	I	EOP	85	I	CIN
11	O	BA8	36	I	RDYPOL	61	O	CLKO	86	—	GND-A5
12	O	BA7	37	I/O	SD2	62	I	CLKI	87	O	LEDT
13	I	MODE	38	—	GND4	63	—	GND-A1	88	I/O	LEDL/RLI
14	O	BA6	39	I/O	SD9	64	I	RBIAS	89	O	LEDC
15	O	BA5	40	I/O	SD1	65	O	TPOPB	90	I	RESET
16	—	GND1	41	I/O	SD8	66	O	TPOPA	91	I/O	BD7
17	O	BA4	42	I/O	SD0	67	—	GND-A2	92	I/O	BD6
18	O	BA3	43	O	SB/SW	68	—	GND-A3	93	I/O	BD5
19	O	BA2	44	I	IOW	69	—	Vdd-A1	94	—	Vdd-SUB2
20	O	BA1	45	I	IOR	70	—	Vdd-A2	95	I/O	BD4
21	O	BA0	46	—	GND5	71	O	TPONA	96	I/O	BD3
22	I/O	SD15	47	I	SA3	72	O	TPONB	97	I/O	BD2
23	I/O	SD7	48	I	SA2	73	—	GND-A4	98	I/O	BD1
24	—	GND2	49	I	SA1	74	O	TPIP	99	I/O	BD0
25	I/O	SD14	50	I	SA0	75	O	TPIN	100	—	GND7

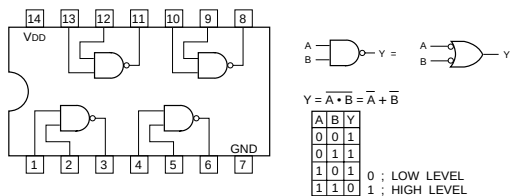
- INPUT/OUTPUT**
- BD7 - BD0 : BUFFER MEMORY DATA BUS
 - LEDL/RLI : LINK LED/RECEIVE LINK TEST
 - SD15 - SD0 : SYSTEM DATA BUS



SN74HC00ANS (TI)
SN74HC00ANS-E05

C-MOS QUAD 2-INPUT NAND GATES

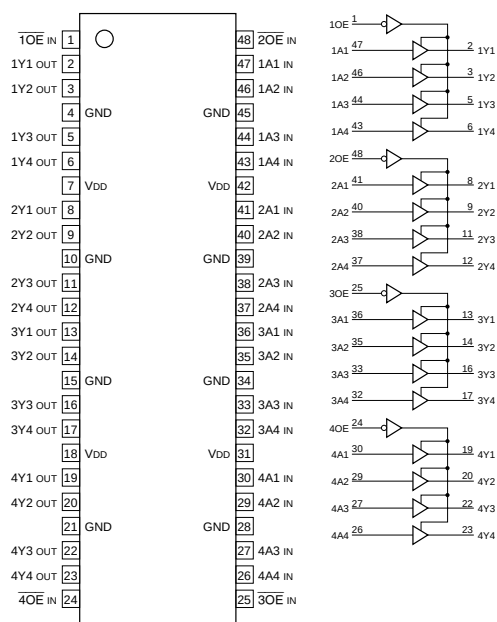
—TOP VIEW—



SN74LVTH16244ADGGR (TI)

C-MOS 16-BIT BUFFERS/DRIVERS

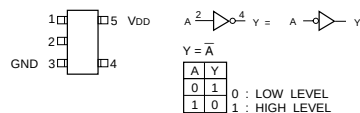
—TOP VIEW—



TC7SH04F (TE85R)
TC7SH04FU (TOSHIBA)

C-MOS INVERTER

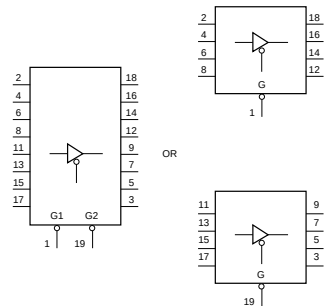
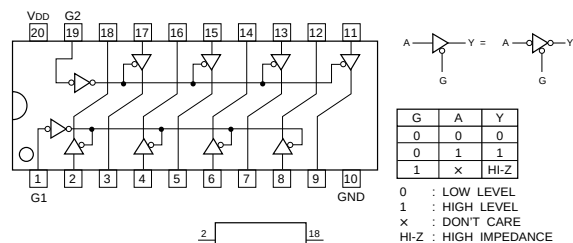
—TOP VIEW—



SN74LVTH244ANS-E05 (TI)
TC74VHC244FT (EL) (TOSHIBA)

BUS BUFFER WITH 3-STATE OUTPUTS

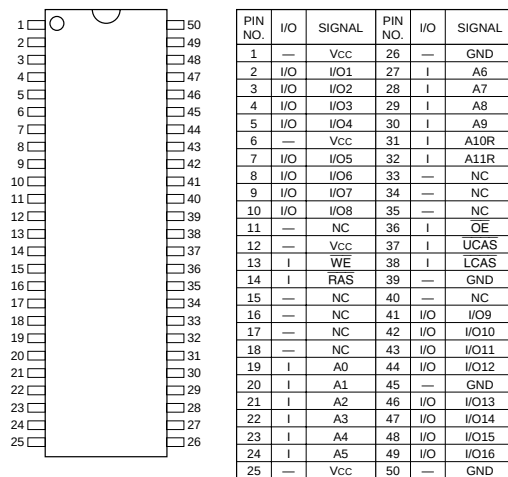
—TOP VIEW—



TC5165165AFTS-50 (TOSHIBA)

64M (4,194,304x16)-BIT EDO DRAM

—TOP VIEW—



INPUTS

A0 - A9 : ADDRESS

A10R, A11R

LCAS : COLUMN ADDRESS STROBE/

LOWER BYTE CONTROL

OE : OUTPUT ENABLE

UCAS : COLUMN ADDRESS STROBE/

UPPER BYTE CONTROL

WE : WRITE ENABLE

INPUTS/OUTPUTS

I/O1 - I/O16 : DATA

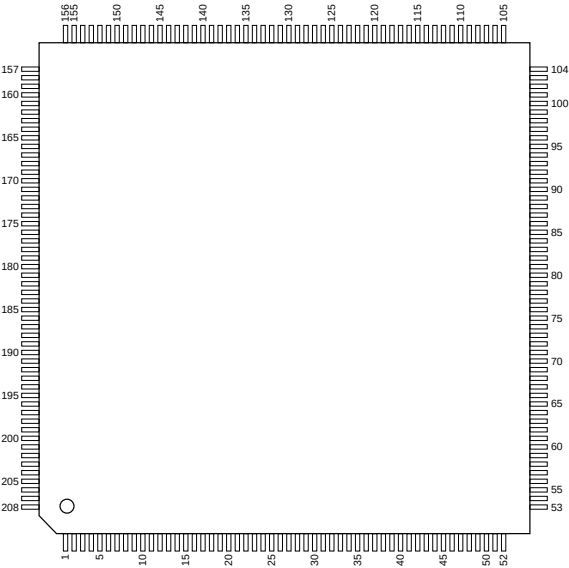
OTHER

NC : NO CONNECTION

TMPR3904F (TOSHIBA)

32-BIT RISC MICROPROCESSOR

—TOP VIEW—



PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL	PIN NO.	I/O	SIGNAL
1	I	XIN	53	—	GND	105	O	SCS3	157	—	GND
2	—	Vcc	54	I/O	A16	106	O	SCS2	158	I/O	D13
3	I/O	LAST	55	I/O	A17	107	O	SCS1	159	I/O	D12
4	I/O	R/W	56	I/O	A18	108	O	SCS0	160	I/O	D11
5	I/O	BE3	57	I/O	A19	109	—	GND	161	I/O	D10
6	I/O	BE2	58	I/O	A20	110	I/O	PIO00	162	I/O	D9
7	I/O	BE1	59	I/O	A21	111	I/O	PIO01	163	I/O	D8
8	I/O	BE0	60	—	GND	112	I/O	PIO02	164	—	GND
9	—	GND	61	—	Vcc	113	I/O	PIO03	165	—	Vcc
10	—	Vcc	62	I/O	A22	114	—	Vcc	166	I/O	D7
11	O	RAS00	63	I/O	A23	115	I/O	PIO04	167	I/O	D6
12	O	RAS01	64	I/O	A24	116	I/O	PIO05	168	I/O	D5
13	O	RAS02	65	I/O	A25	117	I/O	PIO06	169	I/O	D4
14	—	Vcc	66	I/O	A26	118	I/O	PIO07	170	I/O	D3
15	—	GND	67	I/O	A27	119	—	GND	171	I/O	D2
16	O	RAS03	68	—	GND	120	O	TIMOUT2	172	—	GND
17	O	RAS10	69	—	Vcc	121	O	TIMOUT1	173	—	Vcc
18	O	RAS11	70	I/O	A28	122	I	TIMIN2	174	I/O	D1
19	—	GND	71	I/O	A29	123	I	TIMIN1	175	I/O	D0
20	O	RAS12	72	I/O	A30	124	I	SCLKIN	176	I	NMI
21	O	RAS13	73	I/O	A31	125	I	SIN1	177	I	INT0
22	O	CAS0	74	O	CE00	126	I	SIN0	178	I	INT1
23	O	CAS1	75	O	CE01	127	I	CTS1	179	I	INT2
24	—	Vcc	76	O	CE10	128	I	CTS0	180	—	Vcc
25	O	CAS2	77	O	CE11	129	—	Vcc	181	I	INT3
26	O	CAS3	78	O	OE1	130	O	SOUT1	182	I	INT4
27	O	TOUT0	79	—	GND	131	O	SOUT0	183	I	INT5
28	O	TOUT1	80	—	Vcc	132	O	RTS1	184	I	INT6
29	—	GND	81	O	OE0	133	O	RTS0	185	I	INT7
30	O	TOUT2	82	O	SWE0	134	I/O	D31	186	—	GND
31	O	TOUT3	83	O	SWE1	135	I/O	D30	187	O	PCST2
32	O	WE	84	O	TST02	136	I/O	D29	188	O	PCST1
33	I/O	A1	85	O	TST01	137	—	Vcc	189	O	PCST0
34	—	Vcc	86	I	BOOT16	138	I/O	D28	190	O	DCLK
35	I/O	A2	87	I	HALF	139	I/O	D27	191	O	SDAO
36	I/O	A3	88	I	TEST2	140	I/O	D26	192	I	DBG
37	I/O	A4	89	O	BUSGNT	141	I/O	D25	193	I	SDI
38	—	GND	90	O	BUSREL	142	—	GND	194	I	DRESET
39	I/O	A5	91	O	DACK0	143	I/O	D24	195	I	TEST
40	I/O	A6	92	O	DACK1	144	I/O	D23	196	I	RESET
41	I/O	A7	93	O	DACK2	145	I/O	D22	197	I/O	ACK
42	I/O	A8	94	O	DACK3	146	I/O	D21	198	I/O	BUSERR
43	—	Vcc	95	I/O	DONE	147	—	Vcc	199	I/O	BSTART
44	—	GND	96	—	GND	148	—	GND	200	—	GND
45	I/O	A9	97	—	Vcc	149	I/O	D20	201	—	Vcc
46	I/O	A10	98	I	DREQ0	150	I/O	D19	202	O	SYSCLK
47	I/O	A11	99	I	DREQ1	151	I/O	D18	203	I	PLLOFF
48	I/O	A12	100	I	DREQ2	152	I/O	D17	204	I	CLKEN
49	I/O	A13	101	I	DREQ3	153	I/O	D16	205	—	Vcc
50	I/O	A14	102	I	HAVEIT	154	I/O	D15	206	—	GND
51	I/O	A15	103	I	BUSREQ	155	I/O	D14	207	—	GND
52	—	Vcc	104	—	Vcc	156	—	Vcc	208	O	XOUT

- INPUTS
- BOOT16

: BOOT 16-BIT
- BUSREQ

: BUS REQUEST
- CLKEN

: CLOCK ENABLE
- CTS0, CTS1

: CLEAR TO SEND
- DBG

: DEBUG SIGNAL
- DRESET

: DEBUG SIGNAL
- DREQ0 - DREQ3

: DMA REQUEST
- HAVEIT

: HAVE IT
- HALF

: HALF SPEED BUS MODE
- INT0 - INT7

: INTERRUPT REQUEST
- NMI

: NON MASKABLE INTERRUPT
- PLLOFF

: PLL OFF
- RESET

: RESET
- SCLKIN

: SERIAL CLOCK
- SDI

: DEBUG SIGNAL
- SIN0, SIN1

: SERIAL
- TEST, TEST2

: TEST
- TIMIN1, TIMIN2

: TIMER
- XIN

: CRYSTAL

- OUTPUTS
- BUSGNT

: BUS GRANT
- BUSREL

: BUS RELEASE
- CAS0 - CAS3

: CAS
- CE00, CE01,

: CHIP ENABLE
- CE10, CE11

: DMA ACKNOWLEDGE
- DACK0 - DACK3

: DMA REQUEST
- DCLK

: DEBUG SIGNAL
- OE0, OE1

: OUTPUT ENABLE
- PCST0 - PCST2

: DEBUG SIGNAL
- RAS00 - RAS03,

: RAS
- RAS10 - RAS13

: RAS
- RTS0, RTS1

: REQUEST TO SEND
- SCS0 - SCS3

: SYSTEM CHIP SELECT
- SDAO

: DEBUG SIGNAL
- SOUT0, SOUT1

: SERIAL
- SWE0, SWE1

: SRAM WRITE ENABLE
- SYSCLK

: SYSTEM CLOCK
- TIMOUT1, TIMEOUT2

: TIMER
- TOUT0 - TOUT3

: TEST
- TST01, TST02

: TEST
- WE

: WRITE ENABLE
- XOUT

: CRYSTAL

- INPUTS/OUTPUTS
- A1 - A31

: ADDRESS
- ACK

: ACKNOWLEDGE
- BE0 - BE3

: BYTE ENABLE
- BSTART

: BUS START
- BUSERR

: BUS ERROR
- D1 - D31

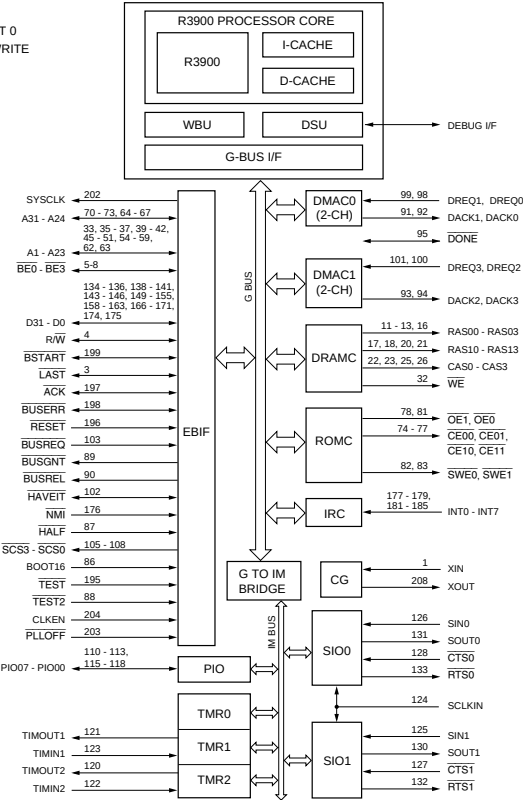
: DATA
- DONE

: DONE
- LAST

: LAST
- PIO00 - PIO07

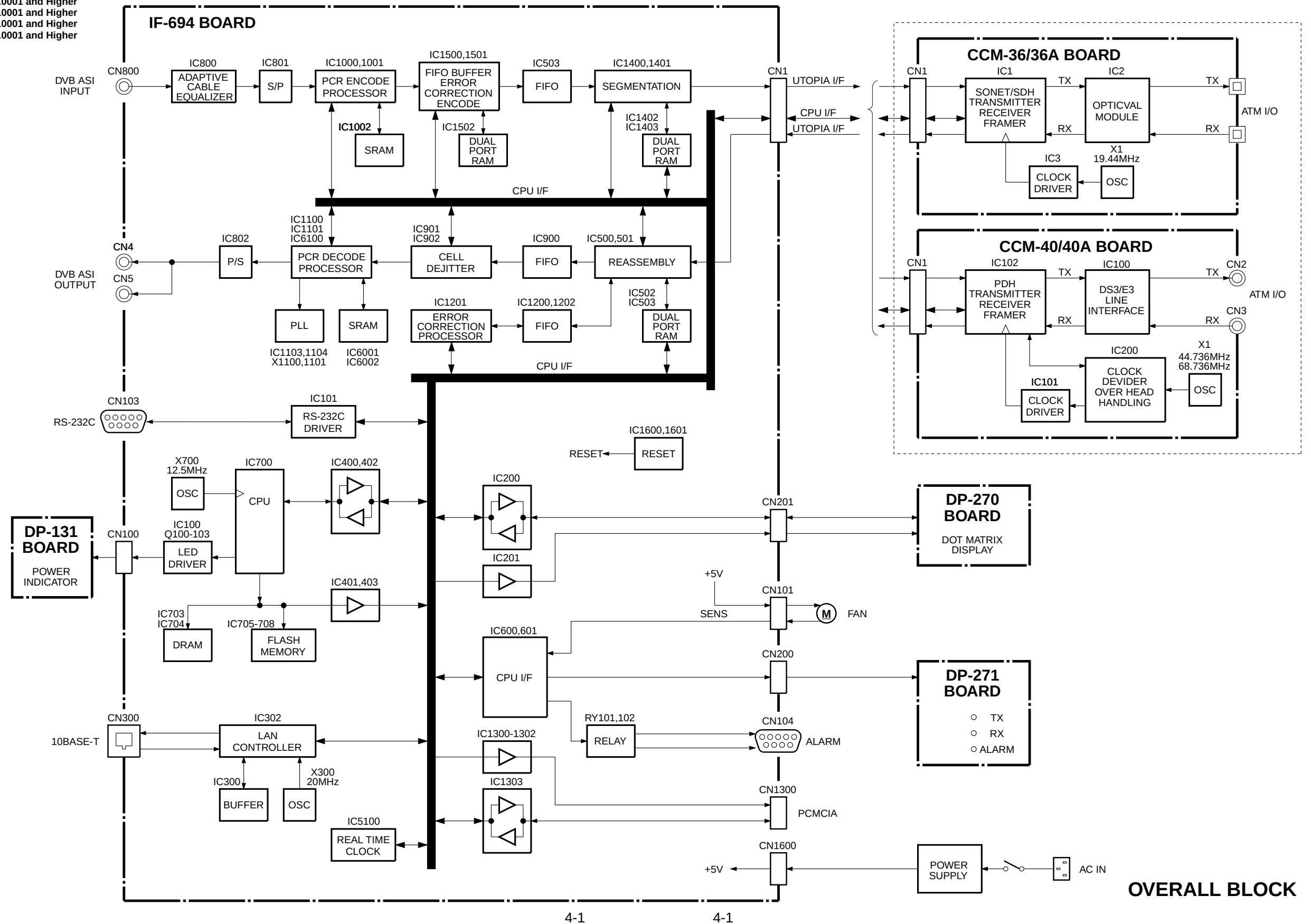
: I/O PORT 0
- R/W

: READ/WRITE



Section 4 Block Diagram

BDX-N1000 (SY) : S/N 10001 and Higher
BDKP-N1001 (SY) : S/N 10001 and Higher
BDKP-N1002 (SY) : S/N 10001 and Higher
BDKP-N1003 (SY) : S/N 10001 and Higher
BDKP-N1004 (SY) : S/N 10001 and Higher



OVERALL BLOCK

Section 5

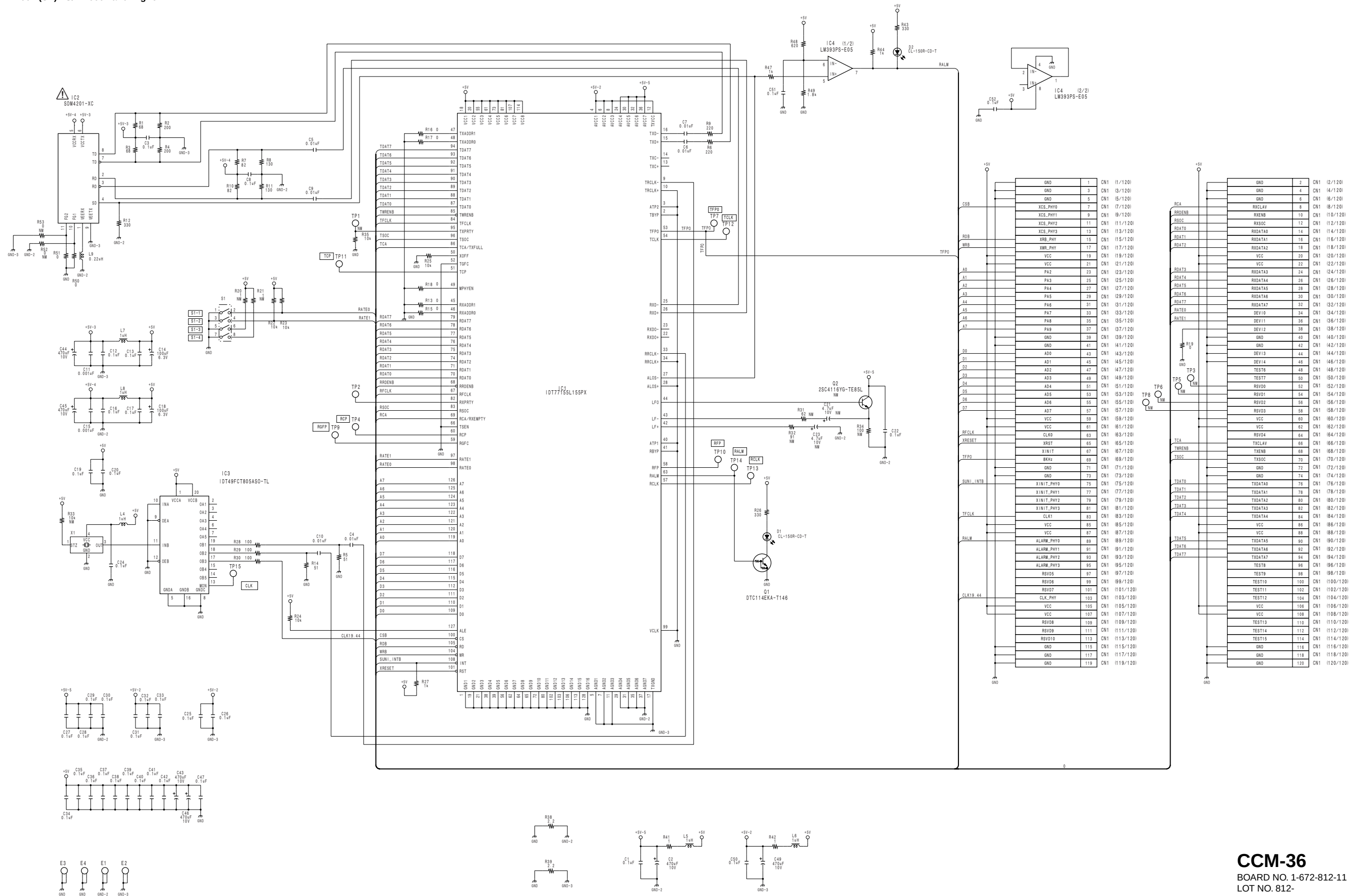
Schematic Diagrams

Index

Board name	Function	Page
CCM-36 (BDKP-N1001)	ATM interface board (Multi Mode Fiber)	5-2
CCM-36A (BDKP-N1002)	ATM interface board (Single Mode Fiber)	5-3
CCM-40 (BDKP-N1003)	ATM interface board (DS3)	5-4
CCM-40A (BDKP-N1004)	ATM interface board (E3)	5-6
DP-131	Indicator light board	–
DP-270	Display board	5-8
DP-271	LED board	5-8
IF-694	ATM board	5-9
Frame Wiring	–	5-35

CCM-36

BDKP-N1001 (SY) : S/N 10001 and Higher

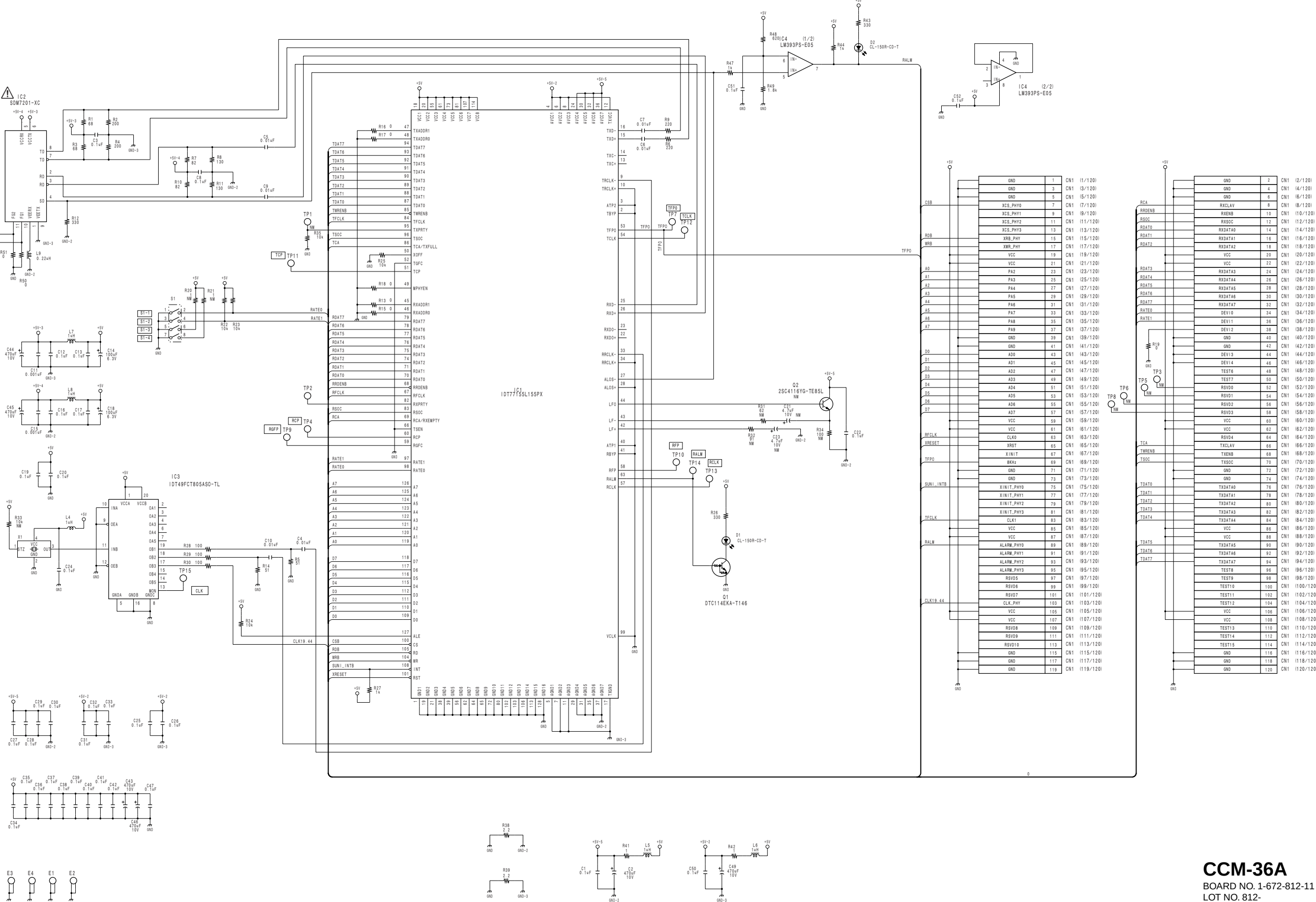


CCM-36
BOARD NO. 1-672-812-11
LOT NO. 812-
BDX-N1000_CCM-36_011_1

BDX-N1000

CCM-36A

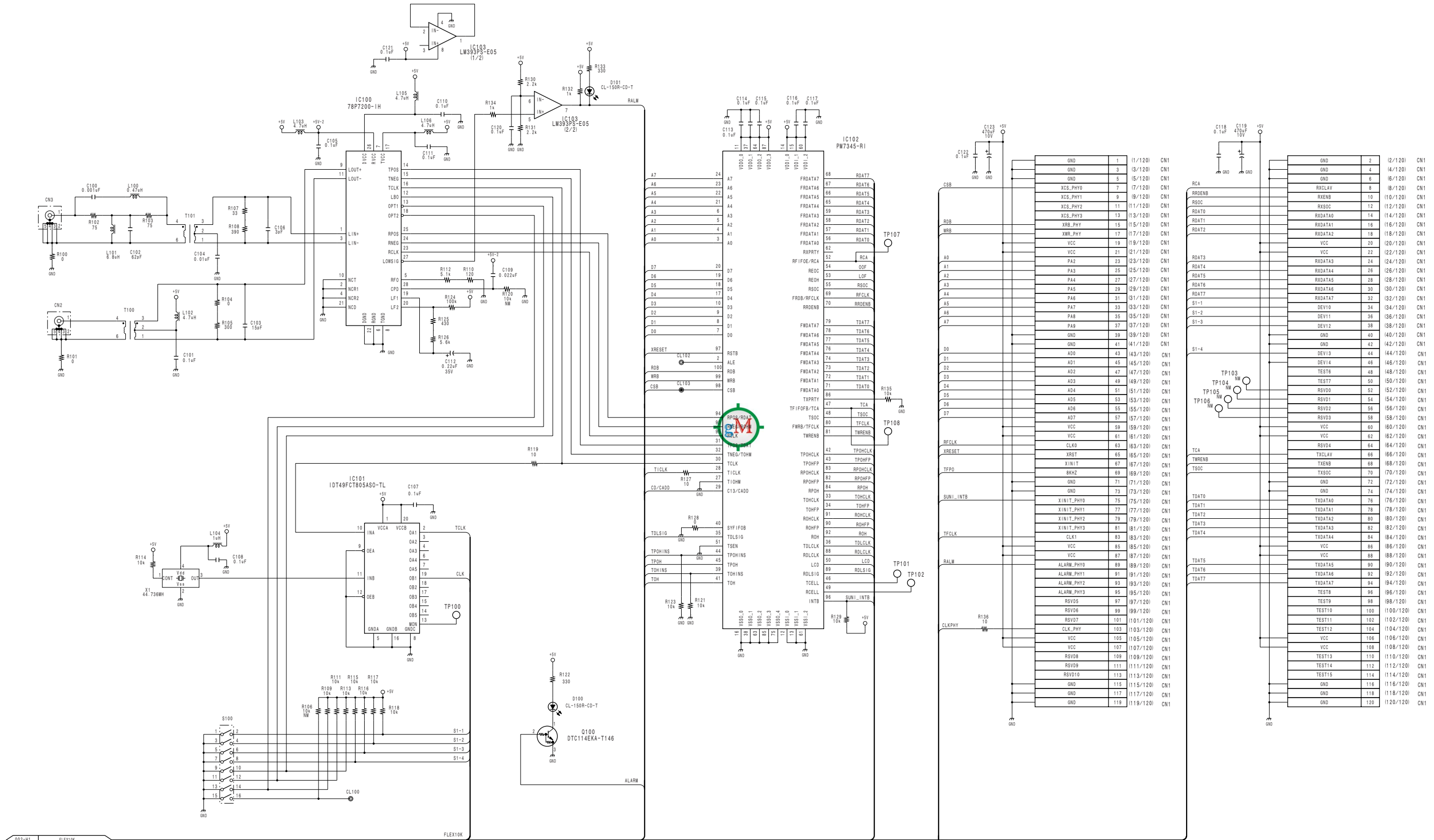
BDKP-N1002 (SY) : S/N 10001 and Higher



CCM-36A
BOARD NO. 1-672-812-11
LOT NO. 812-
BDX-N1000_CCM-36A_011_1

CCM-40 (1/2)

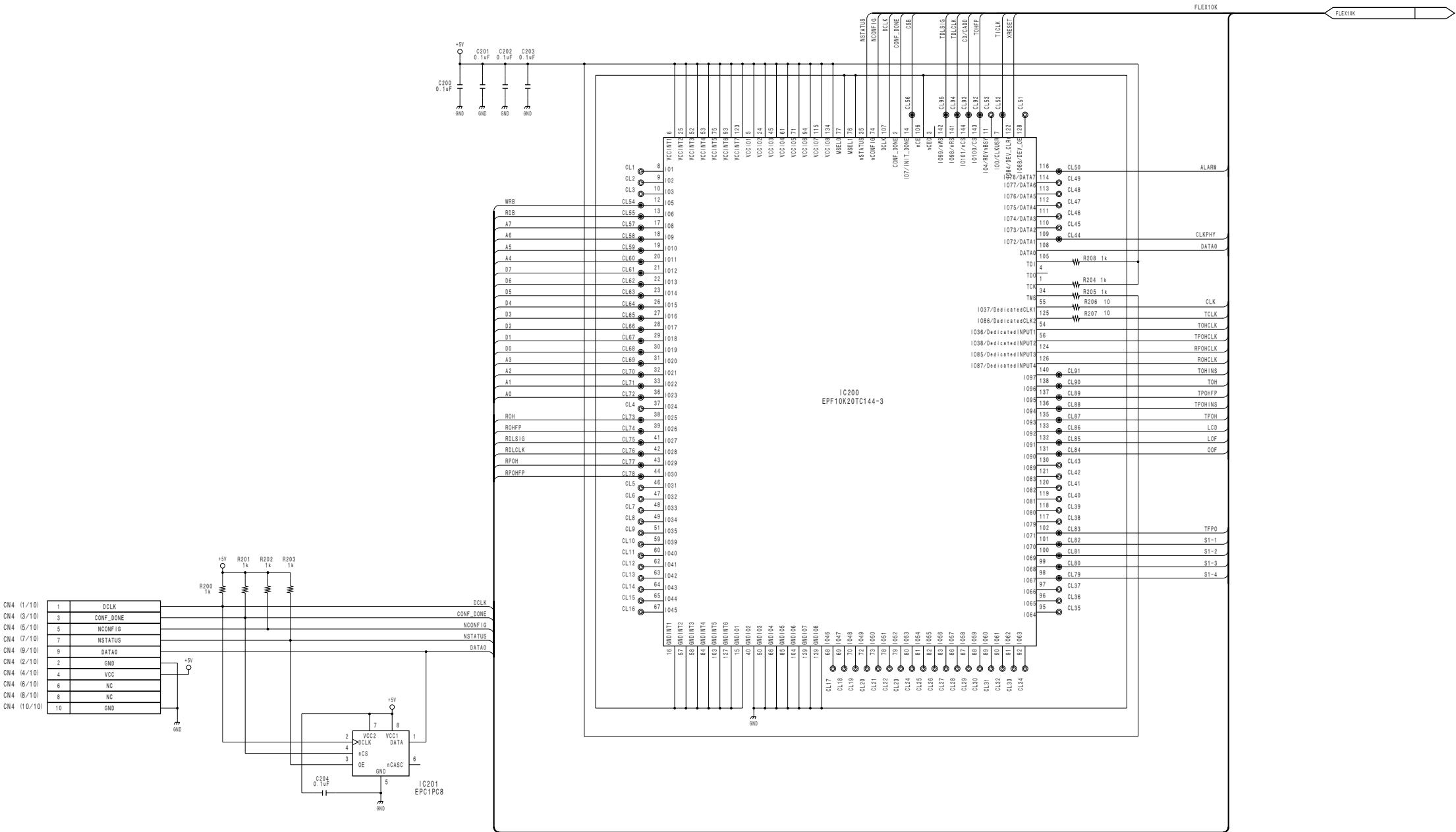
BDKP-N1003 (SY) : S/N 10001 and Higher



CCM-40 (1/2)

BOARD NO. 1-672-813-11
LOT NO. 812-
BDX-N1000_CCM-40_011_1

BDKP-N1003 (SY) : S/N 10001 and Higher

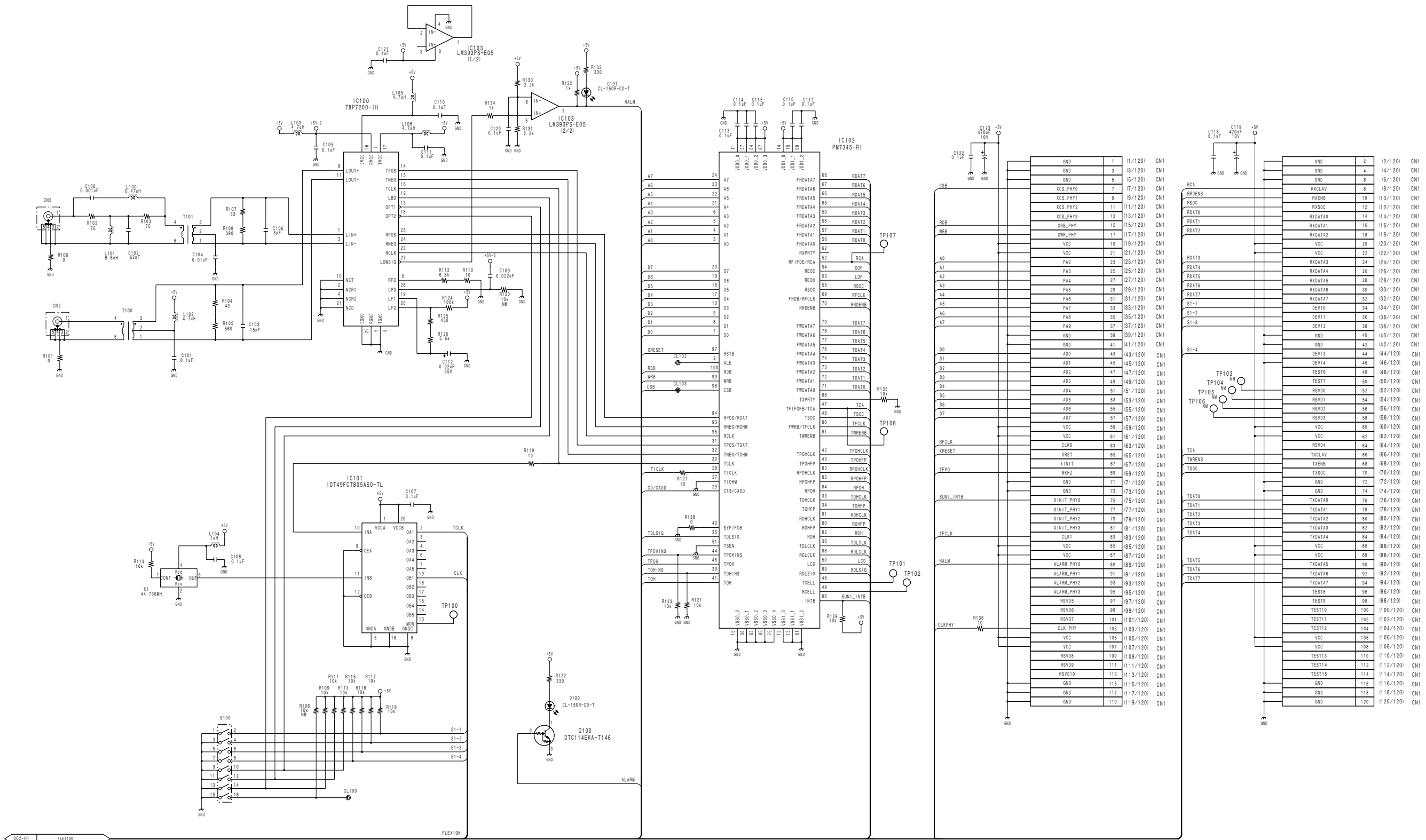


CCM-40 (2/2)

BOARD NO. 1-672-813-11
LOT NO. 812-
BDX-N1000_CCM-40_011_2

CCM-40A (1/2)

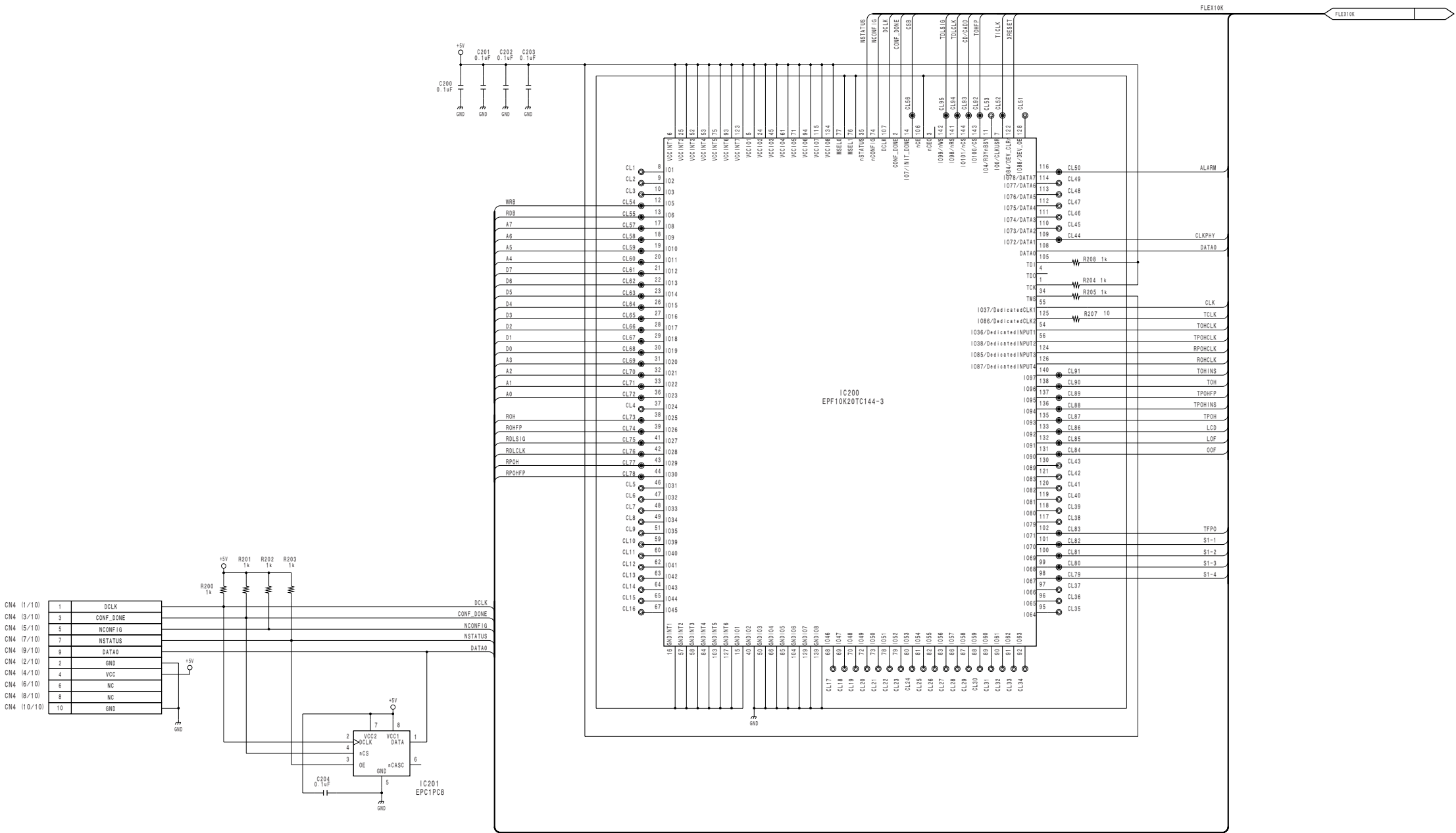
BDKP-N1004 (SY) : S/N 10001 and Higher



CCM-40A (1/2)
BOARD NO. 1-672-813-11
LOT NO. 812-
BDX-N1000_CCM-40A_011_1

BDX-N1000

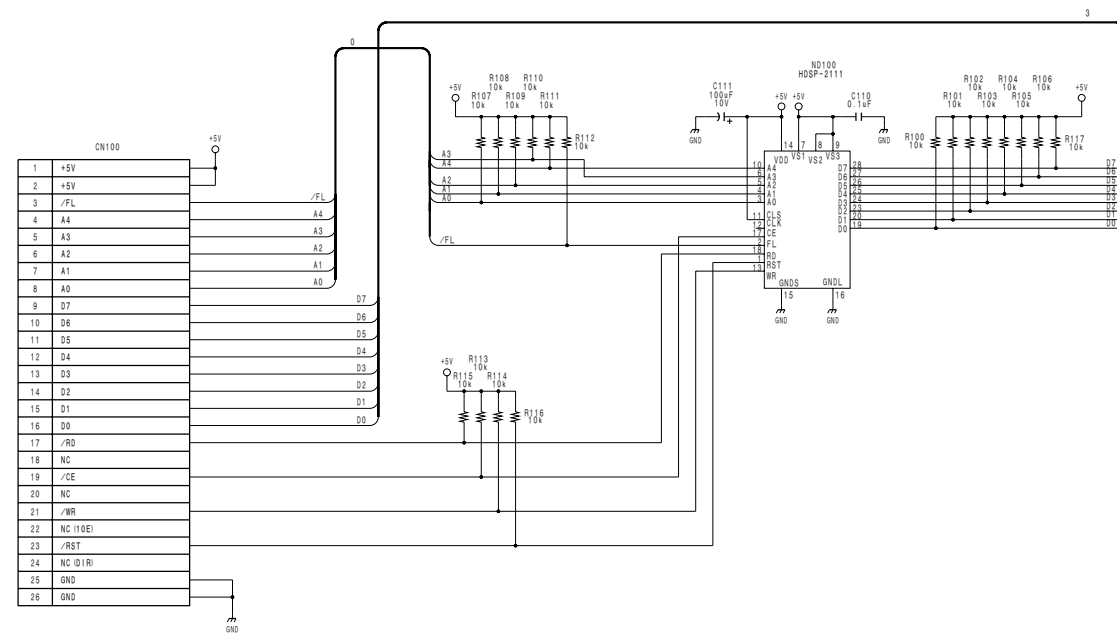
BDKP-N1004 (SY) : S/N 10001 and Higher



CCM-40A (2/2)
BOARD NO. 1-672-813-11
LOT NO. 812-
BDX-N1000_CCM-40A_011_2

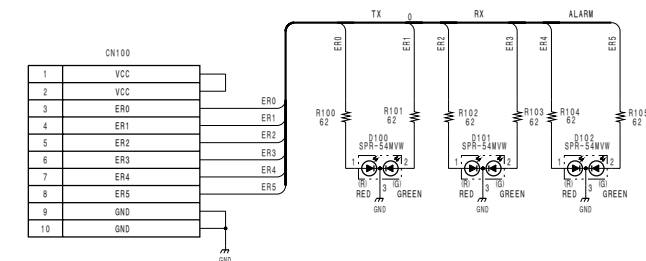
BDX-N1000 (SY) : S/N 10001 and Higher

BDX-N1000 (SY) : S/N 10001 and Higher



DP-270

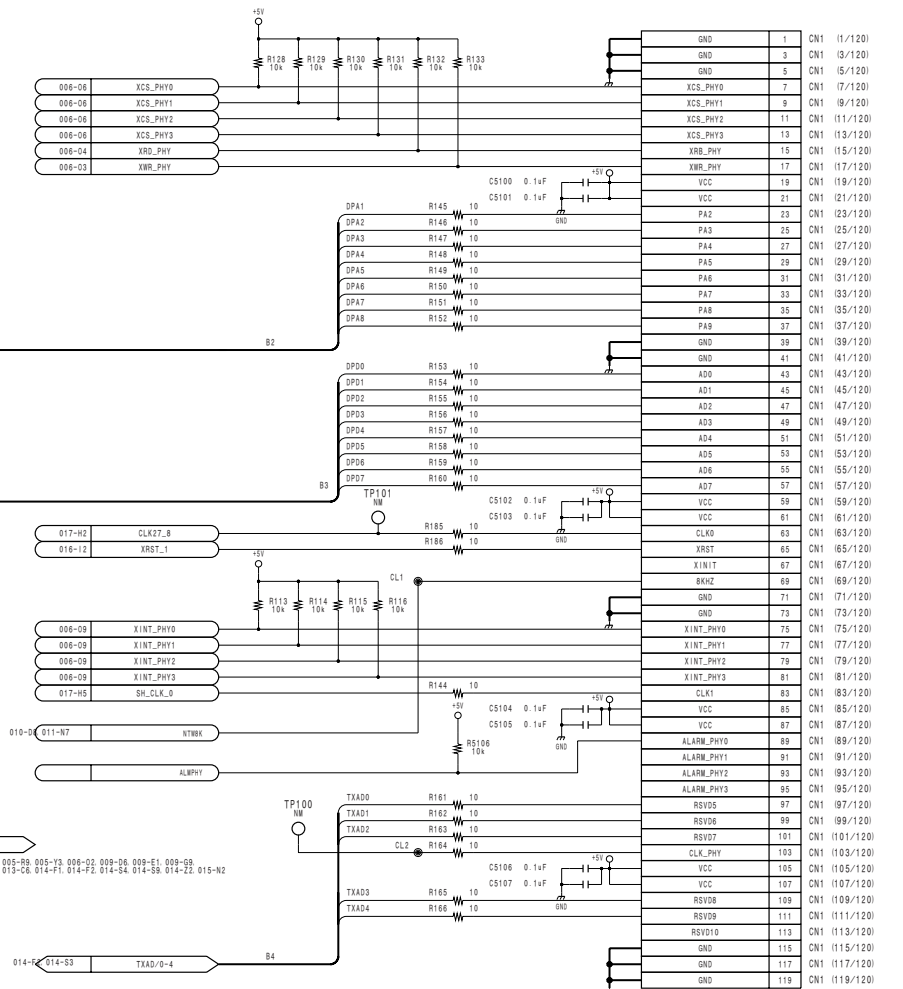
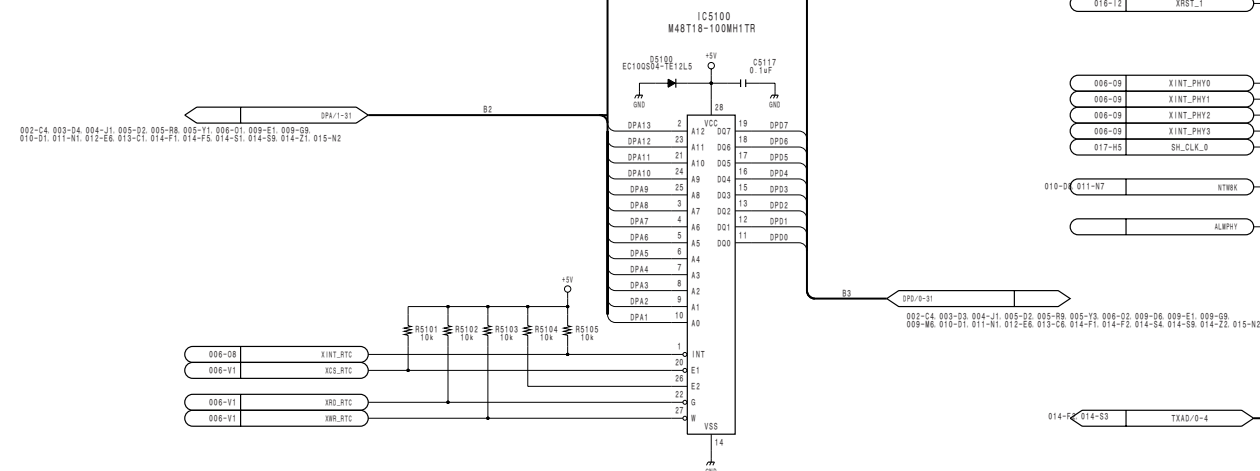
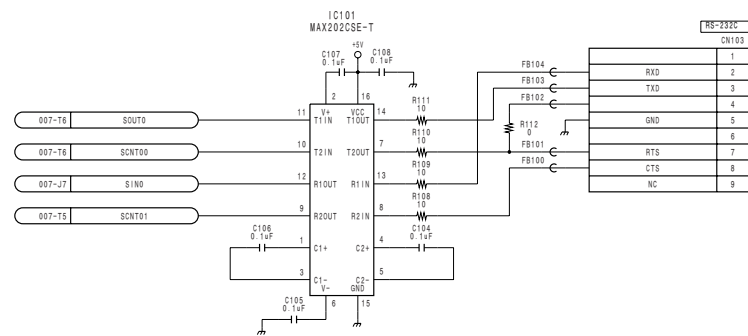
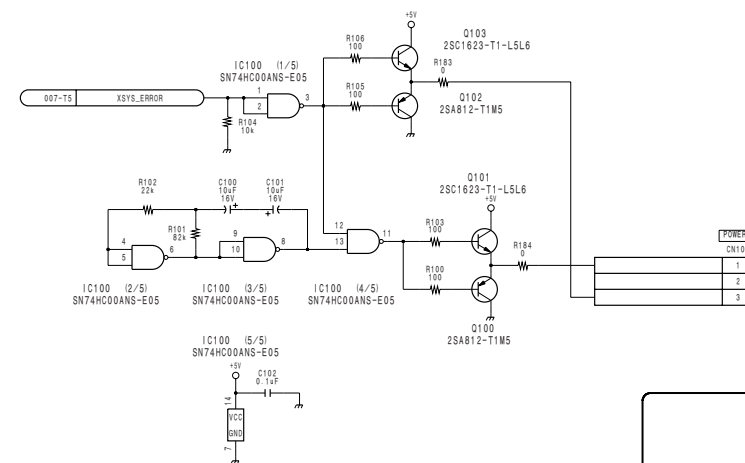
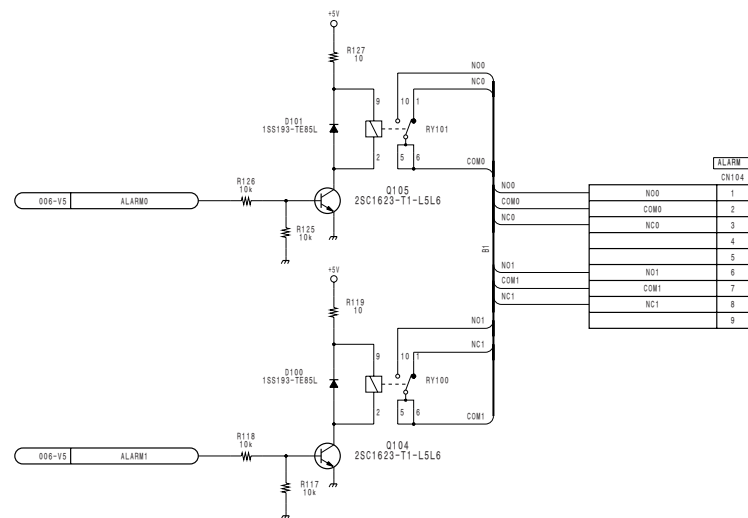
BOARD NO. 1-672-815-11
LOT NO. 811-
BDX-N1000_DP-270_011_1



DP-271

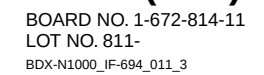
BOARD NO. 1-672-816-11
LOT NO. 811-
BDX-N1000_DP-271_011_1

BDX-N1000 (SY) : S/N 10001 and Higher



IF-694 (1/18)
BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_1

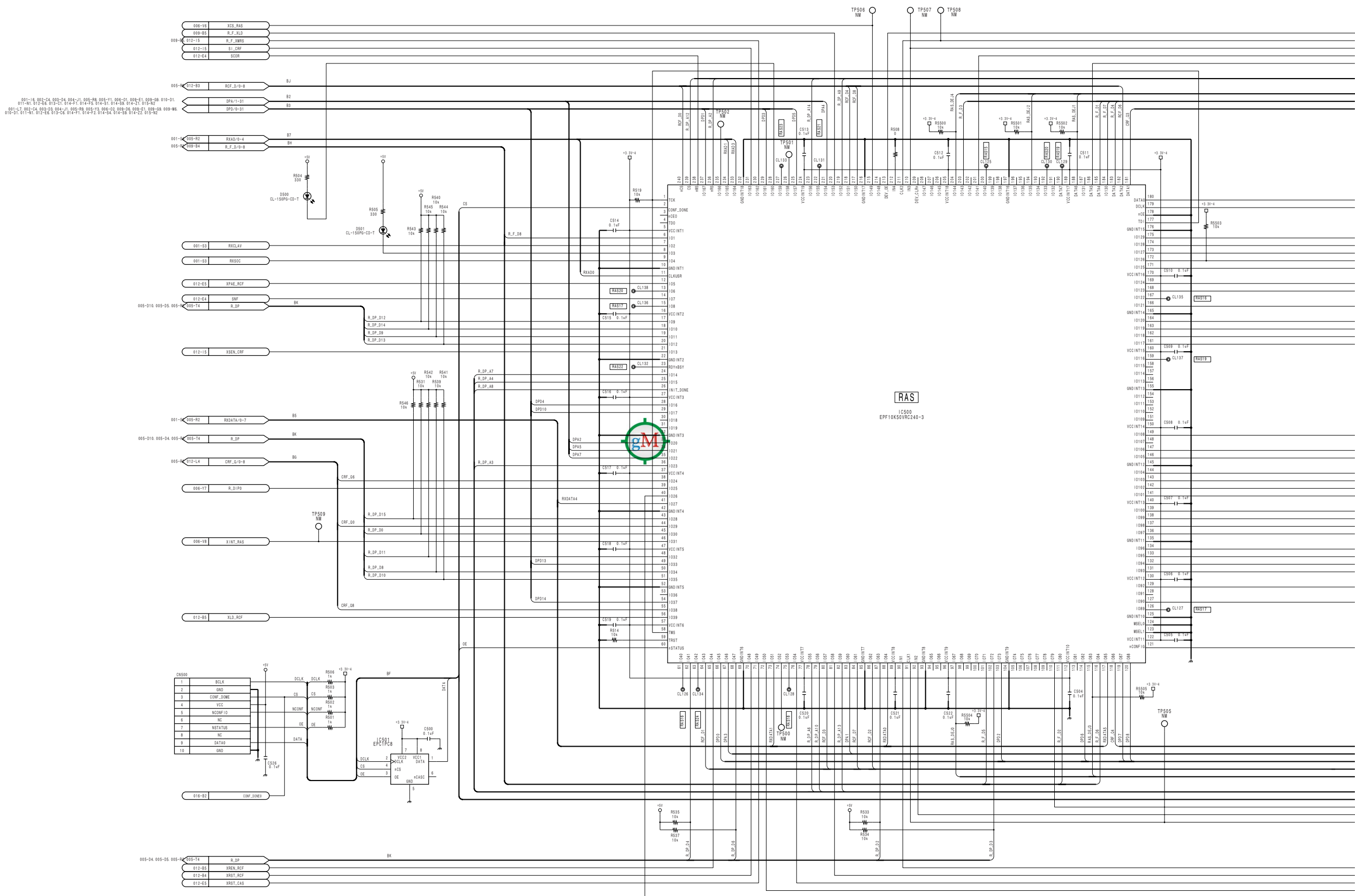
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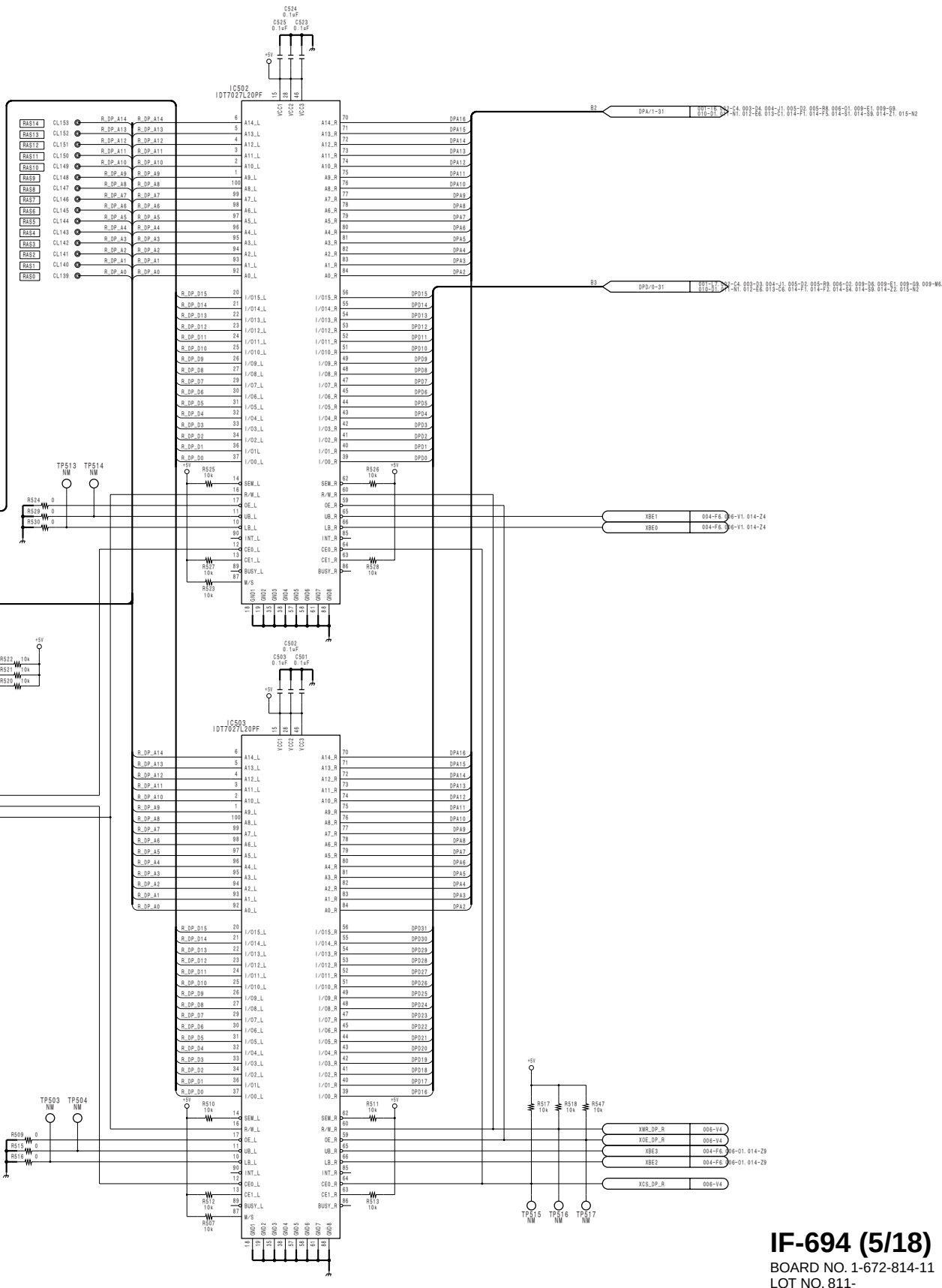
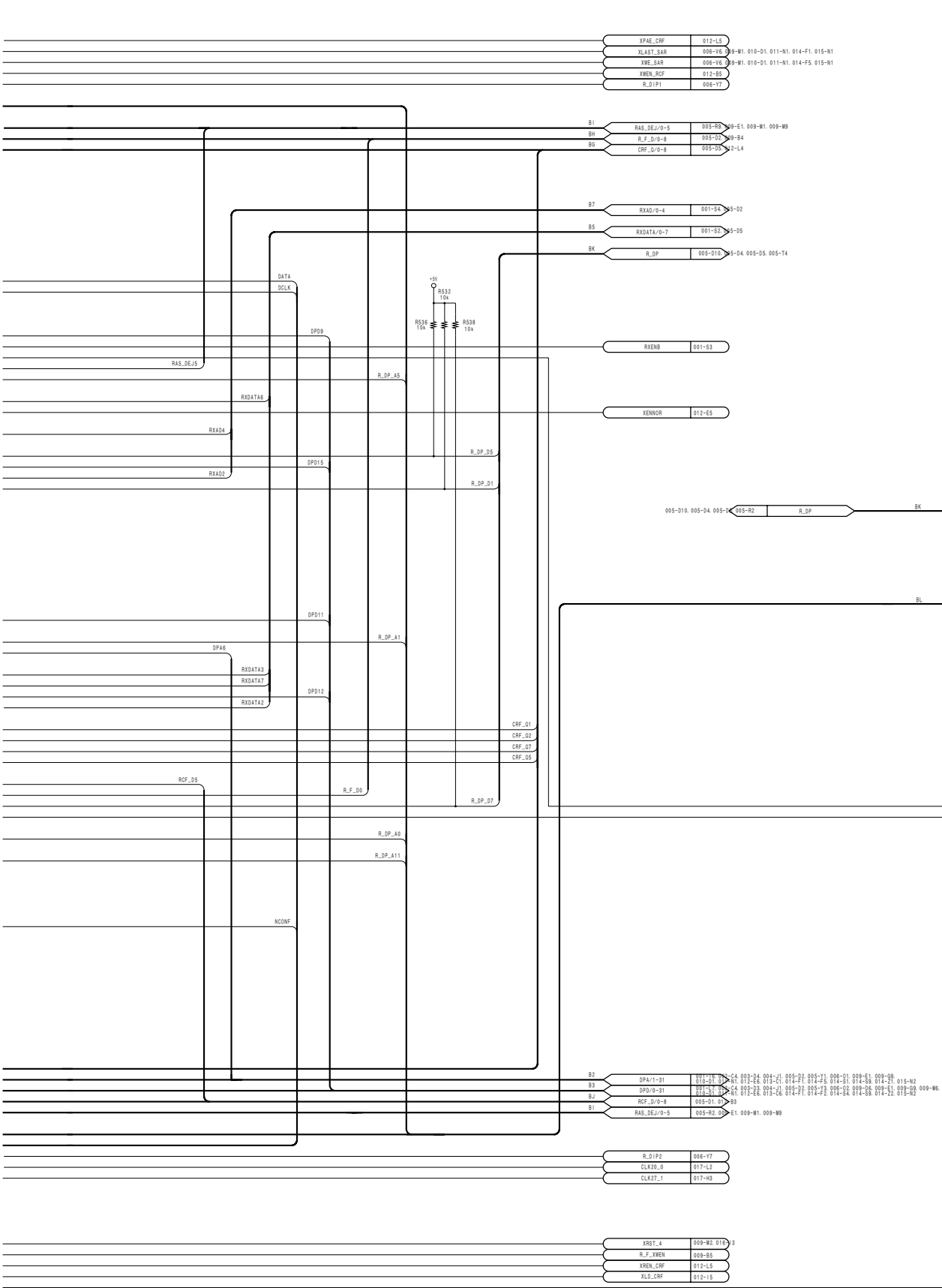


5



BDX-N1000 (SY) : S/N 10001 and Higher





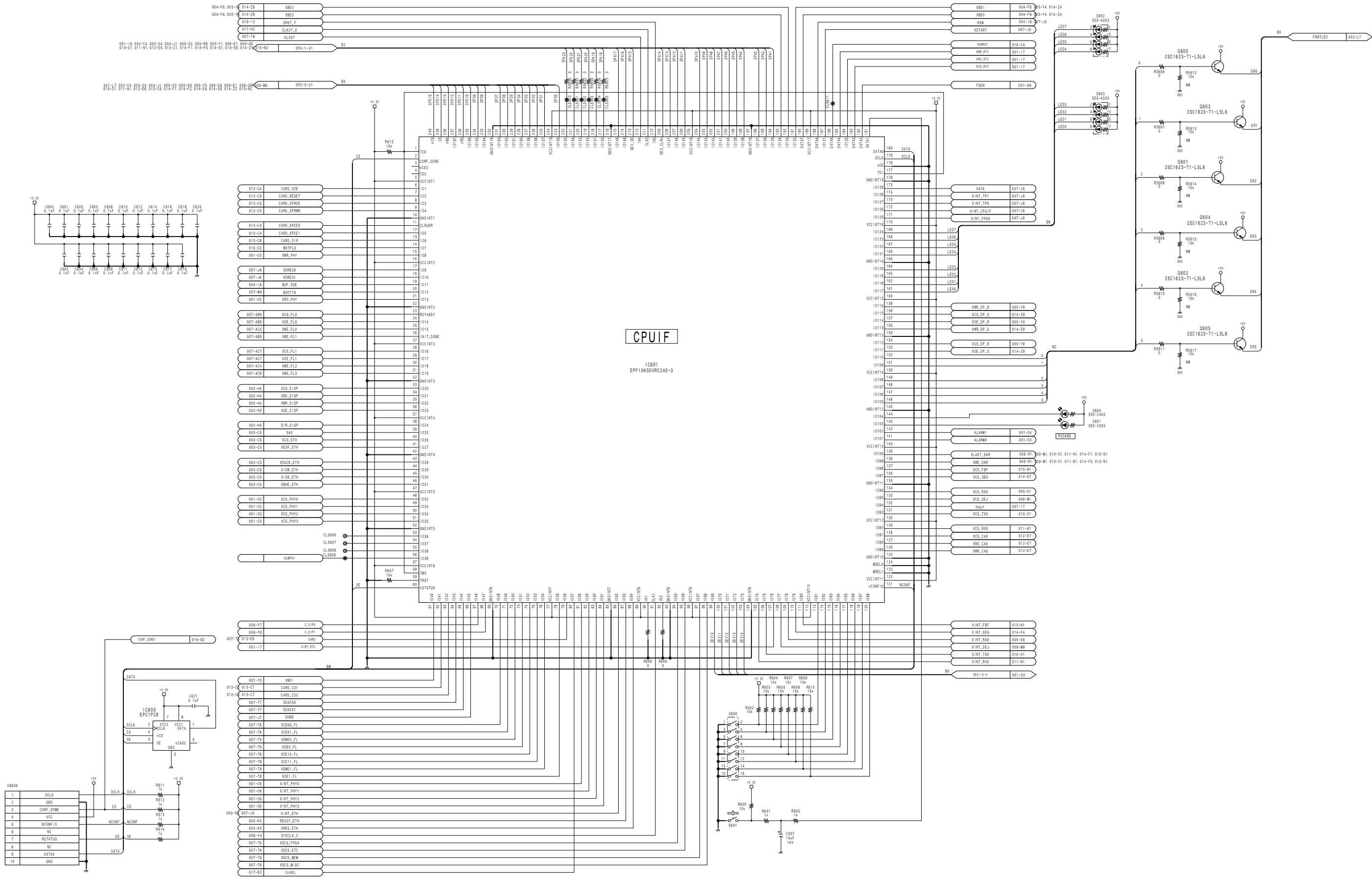
IF-694 (5/18)

BOARD NO. 1-672-814-11

LOT NO. 811-

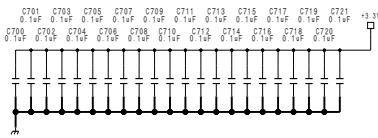
BDX-N1000_IF-694_011_5

BDX-N1000 (SY) : S/N 10001 and Higher

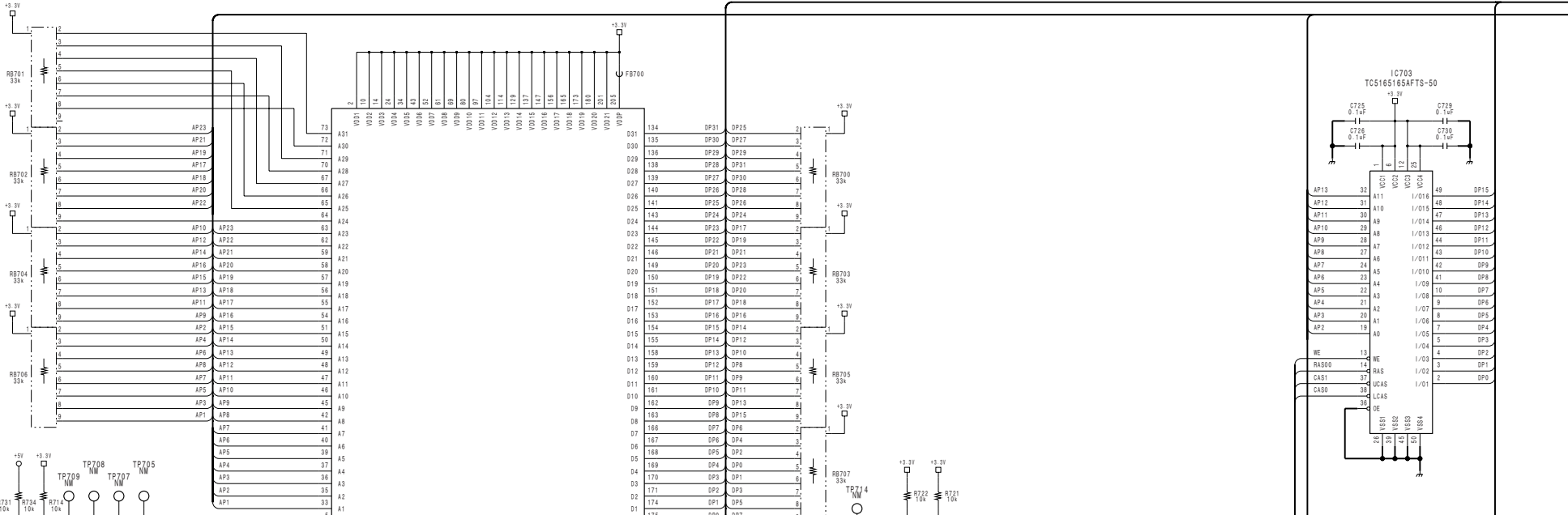


BDX-N1000 (SY) : S/N 10001 and Higher

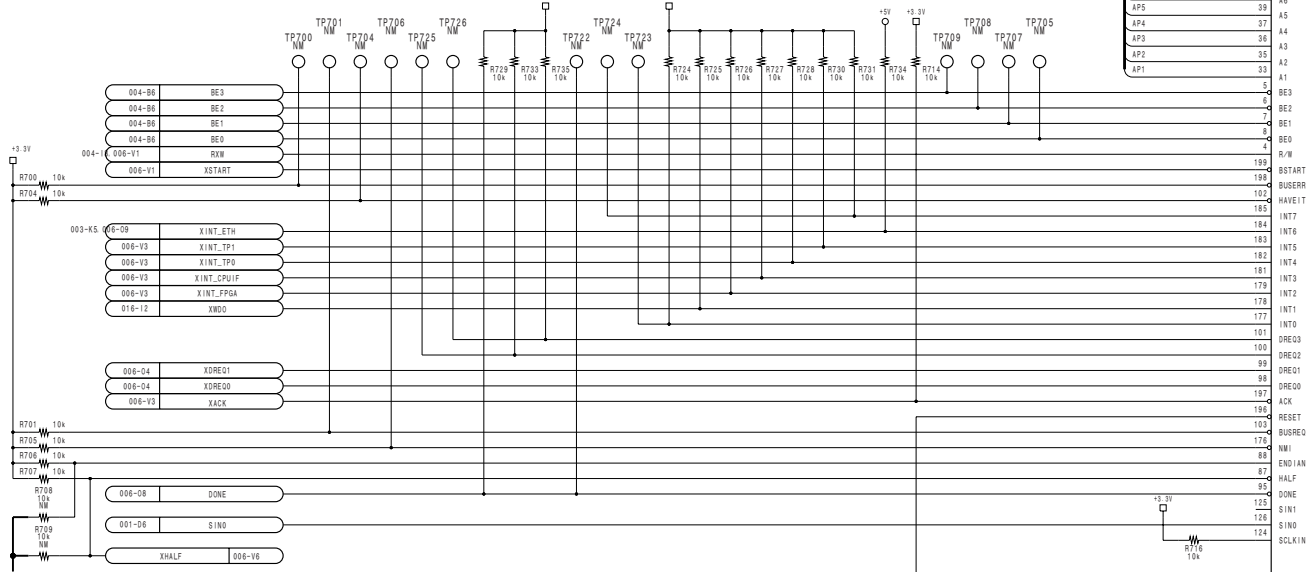
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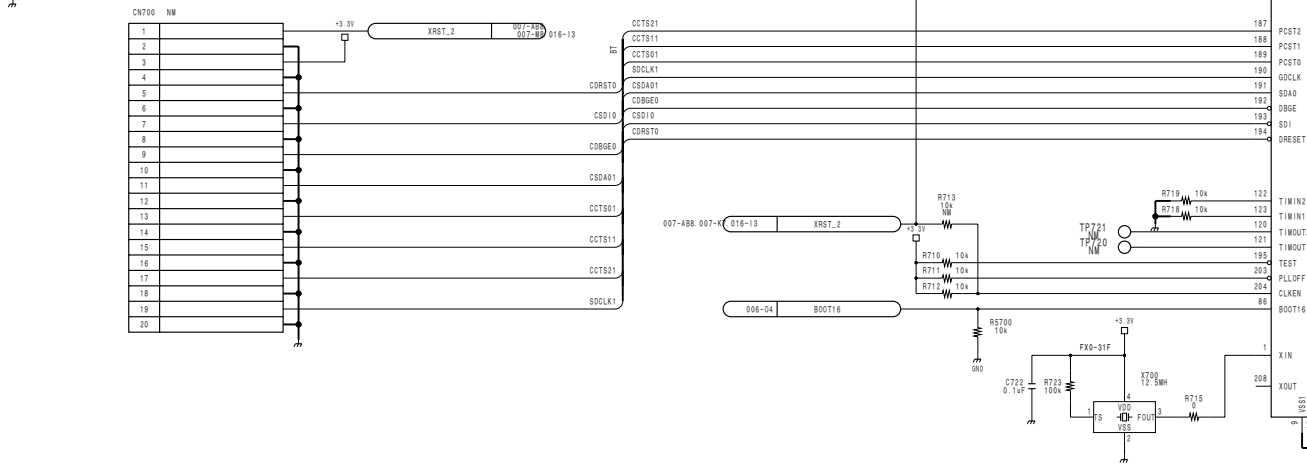
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3



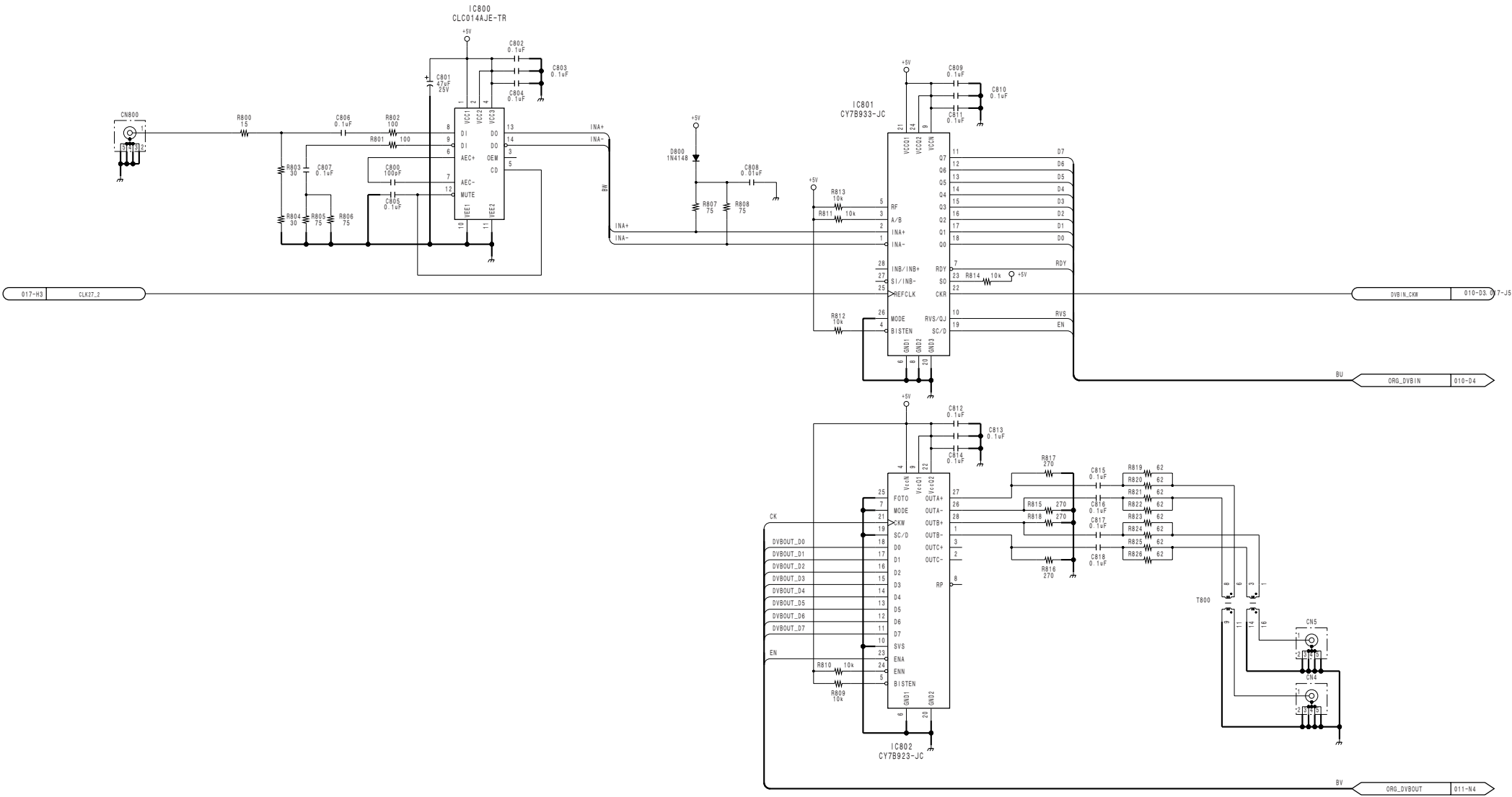
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5



BDX-N1000 (SY) : S/N 10001 and Higher

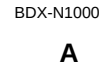


IF-694 (8/18)

BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_8

BDX-N1000

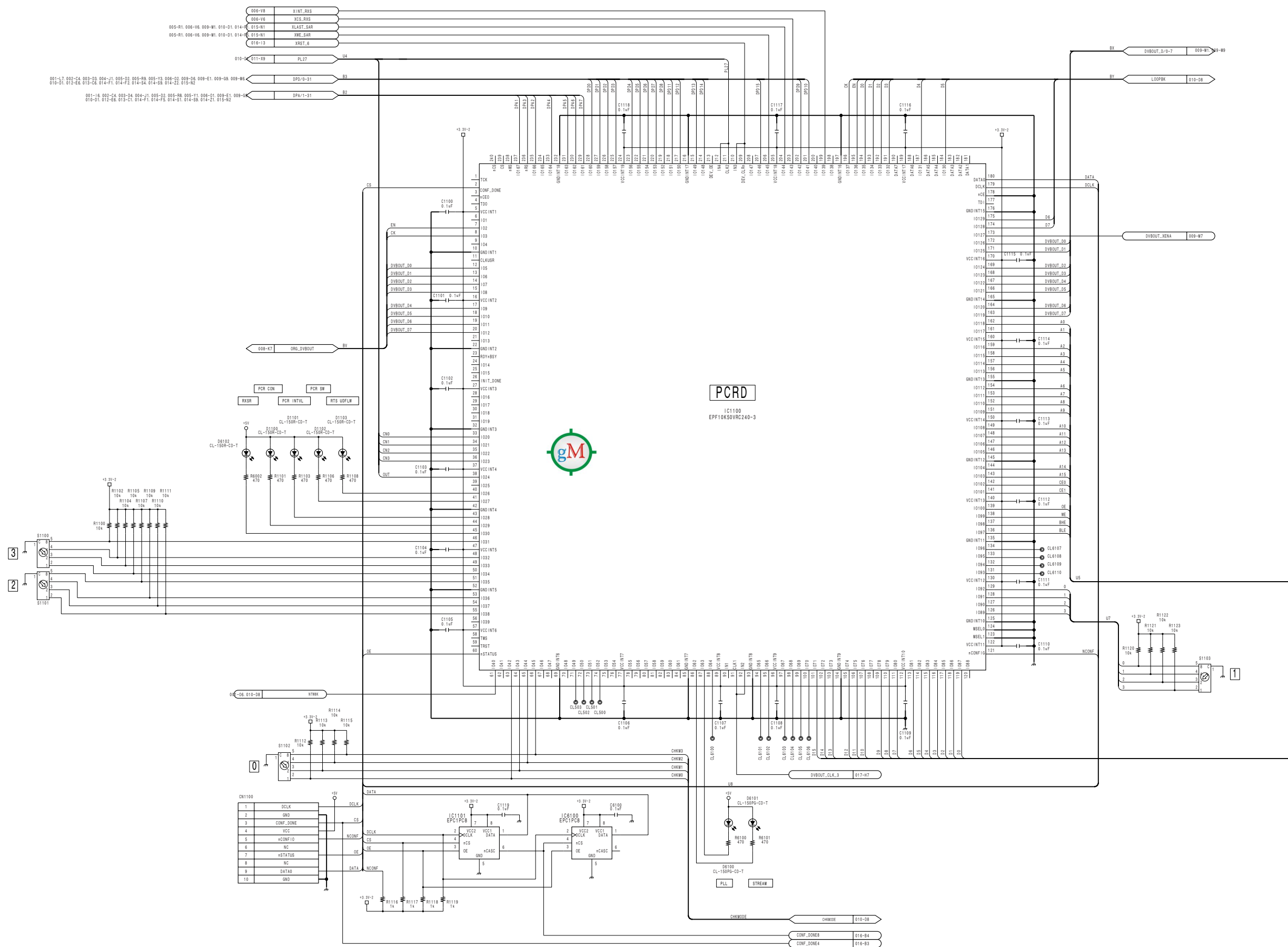
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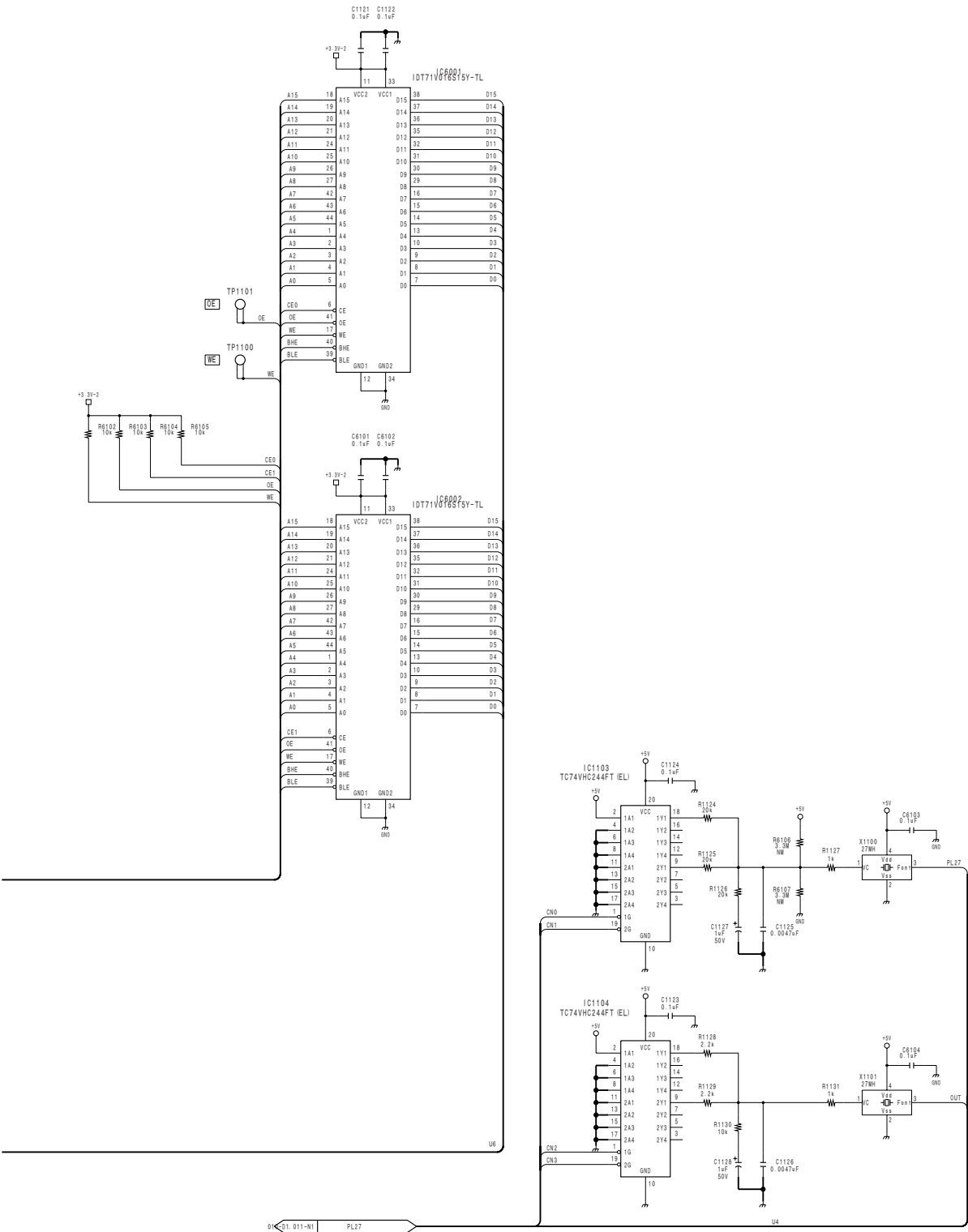


H

BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_10

BDX-N1000 (SY) : S/N 10001 and Higher





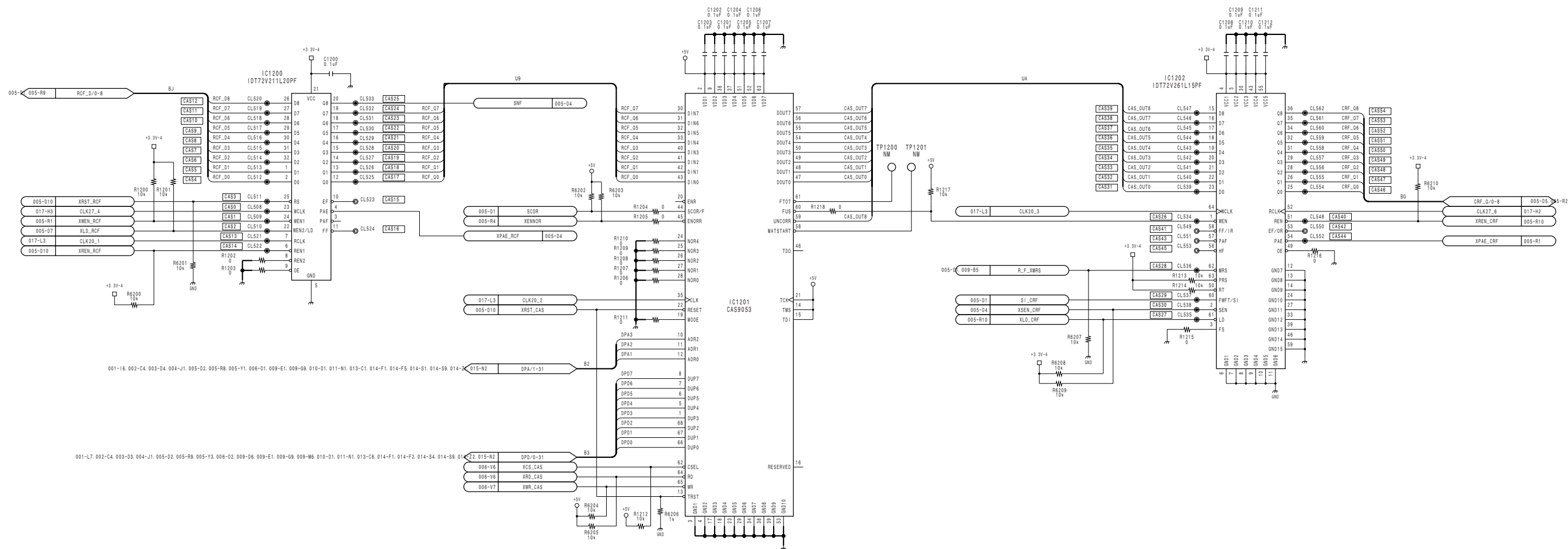
IF-694 (11/18)

BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_11

BDX-N1000 (SY) : S/N 10001 and Higher

1

2



3

4

5

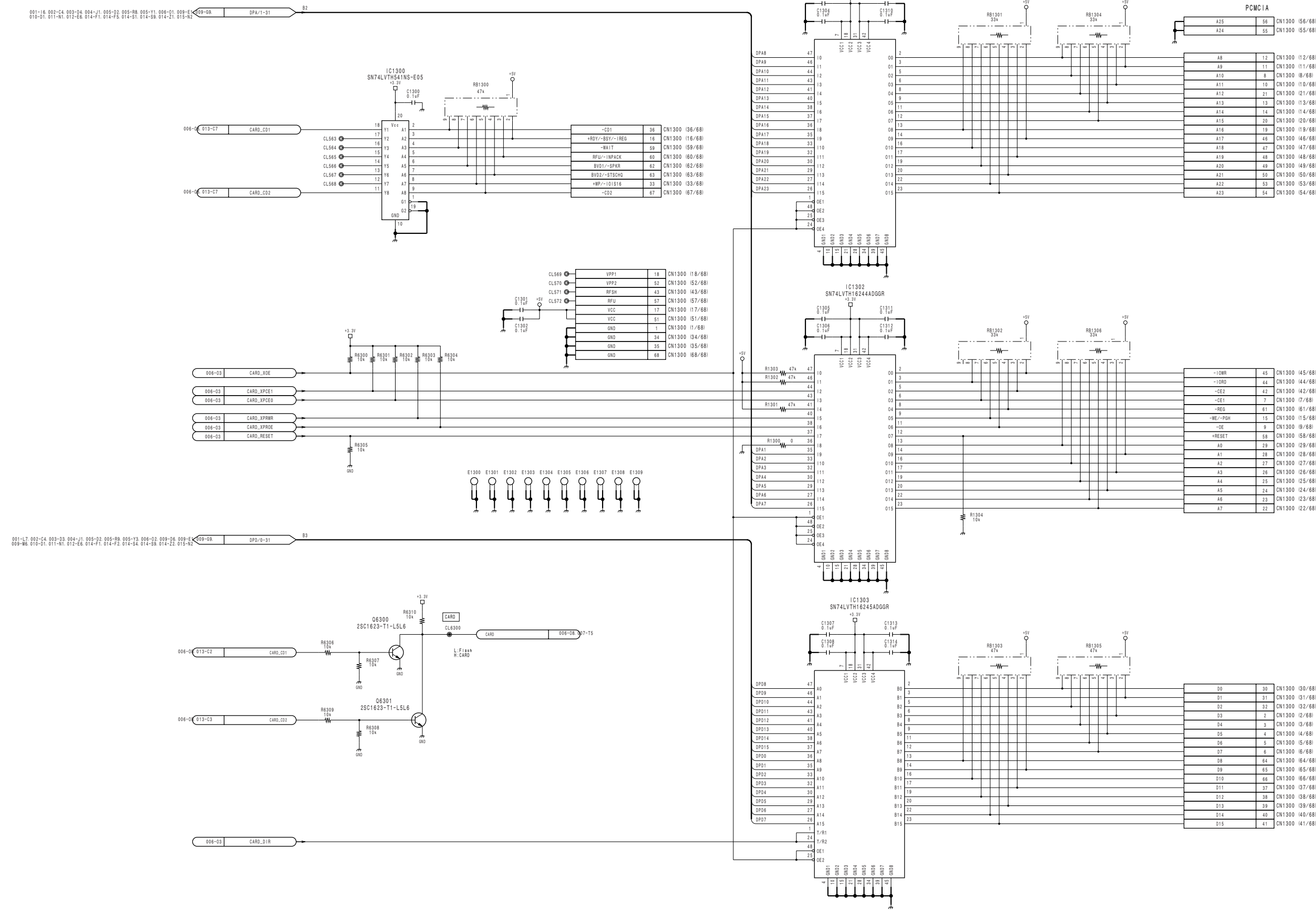
IF-694 (12/18)

BOARD NO. 1-672-814-11

LOT NO. 811-

BDX-N1000_IF-694_011_12

BDX-N1000 (SY) : S/N 10001 and Higher



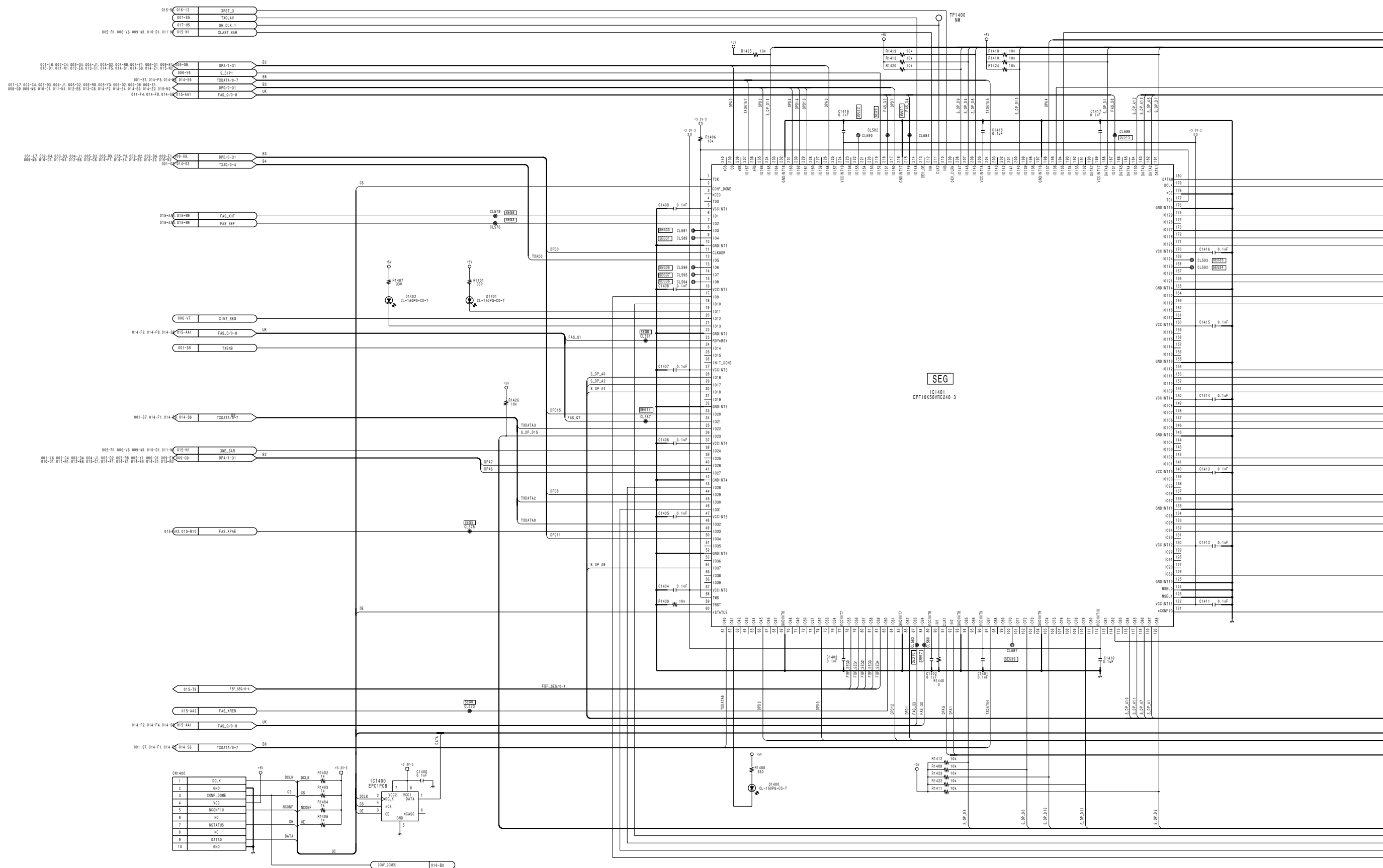
IF-694 (13/18)

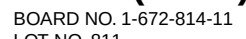
BOARD NO. 1-672-814-11

LOT NO. 811-

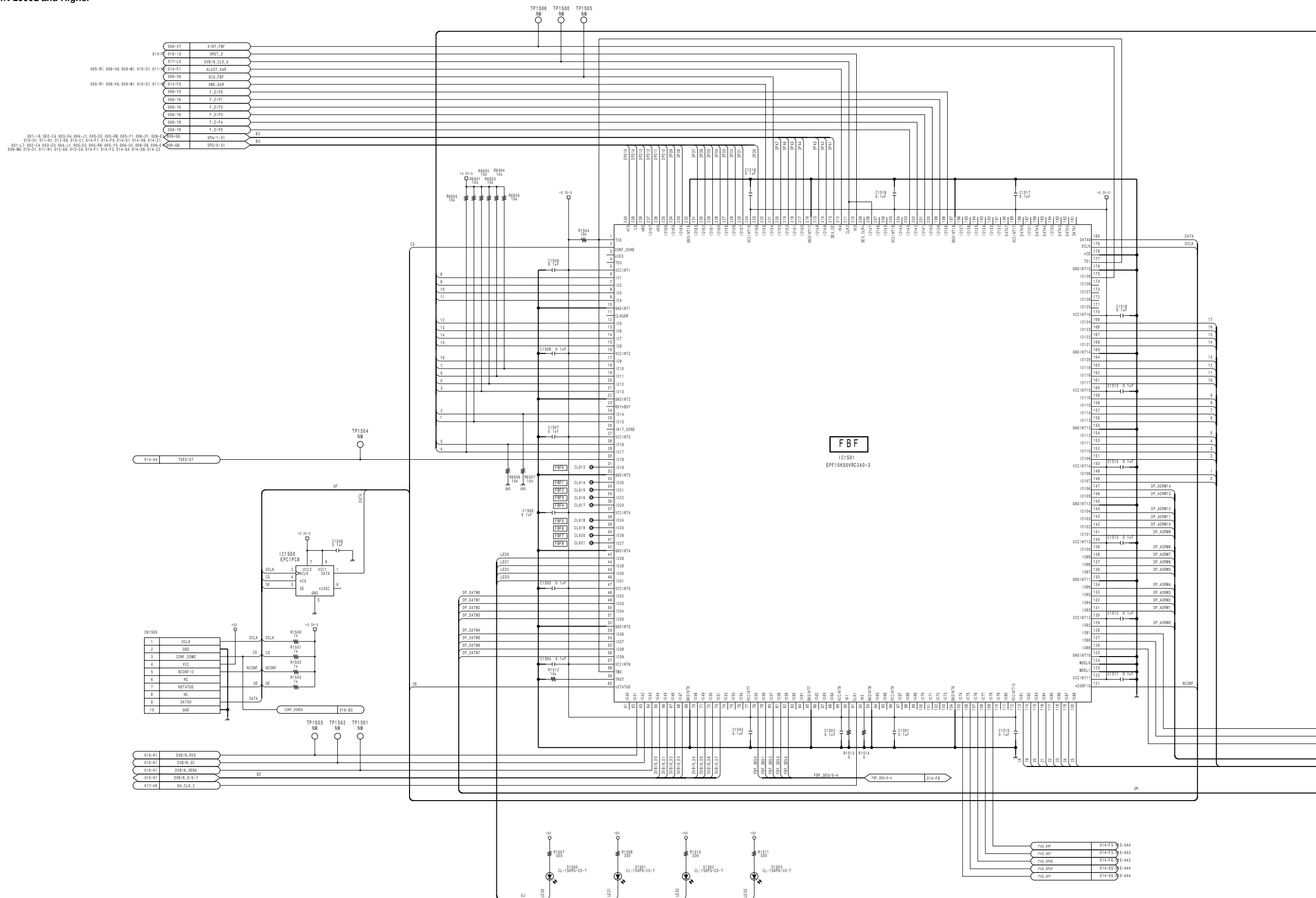
BDX-N1000_IF-694_011_13

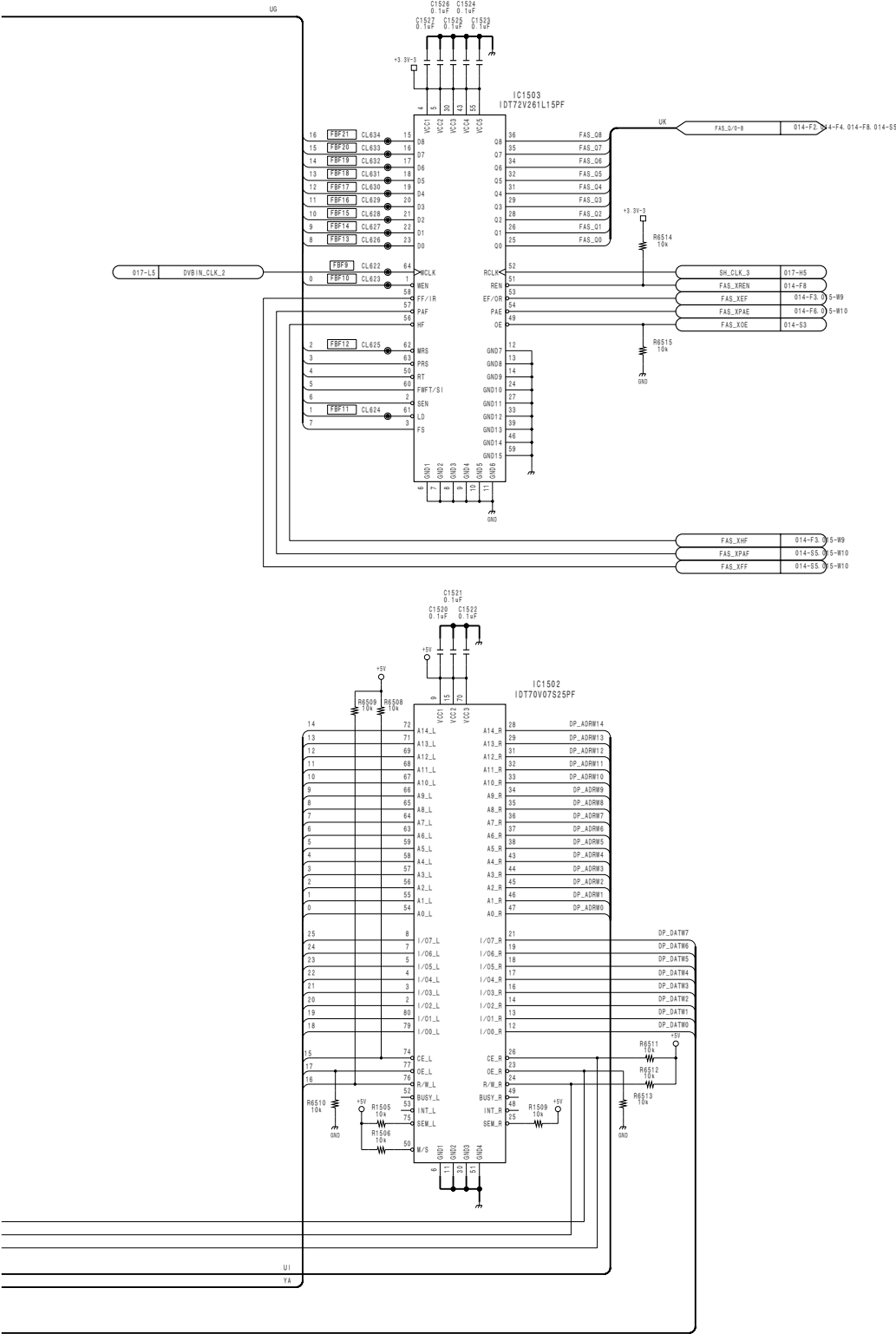
BDX-N1000 (SY) : S/N 10001 and Higher





BDX-N1000 (SY) : S/N 10001 and Higher

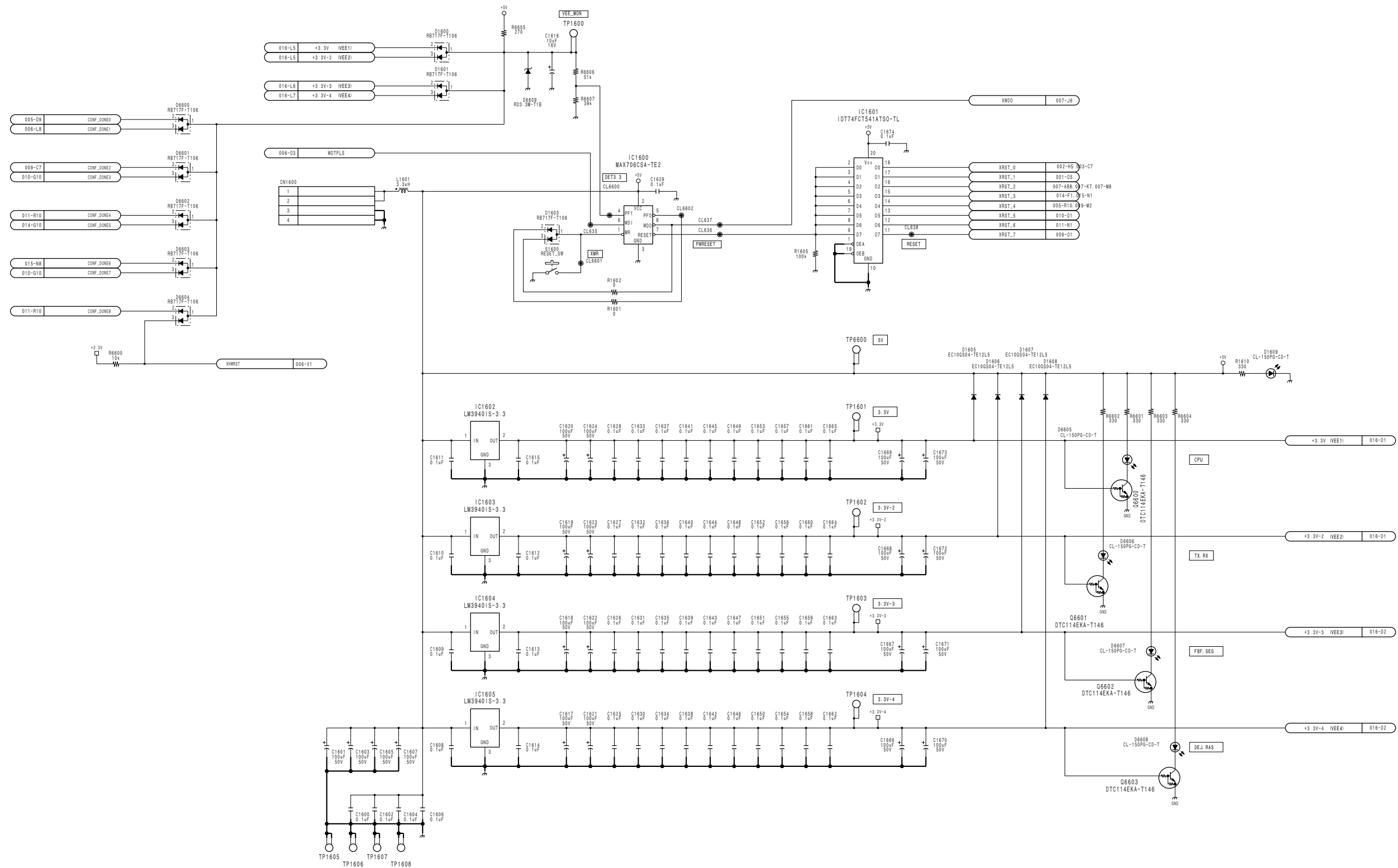




IF-694 (15/18)

BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_15

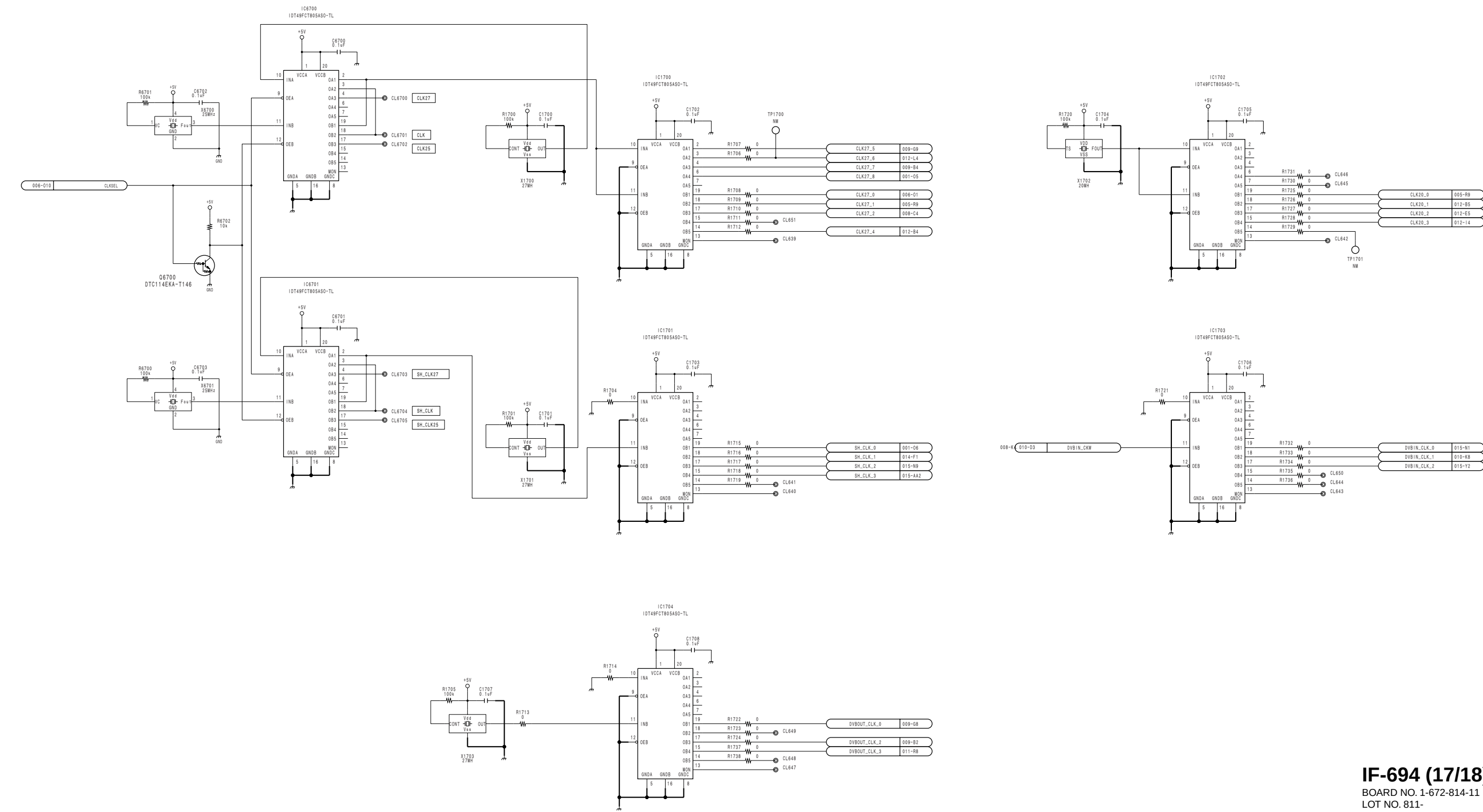
BDX-N1000 (SY) : S/N 10001 and Higher



IF-694 (16/18)

BOARD NO. 1-672-814-11
LOT NO. 811-
BDX-N1000_IF-694_011_16

BDX-N1000 (SY) : S/N 10001 and Higher



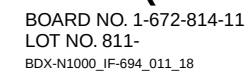
IF-694 (17/18)

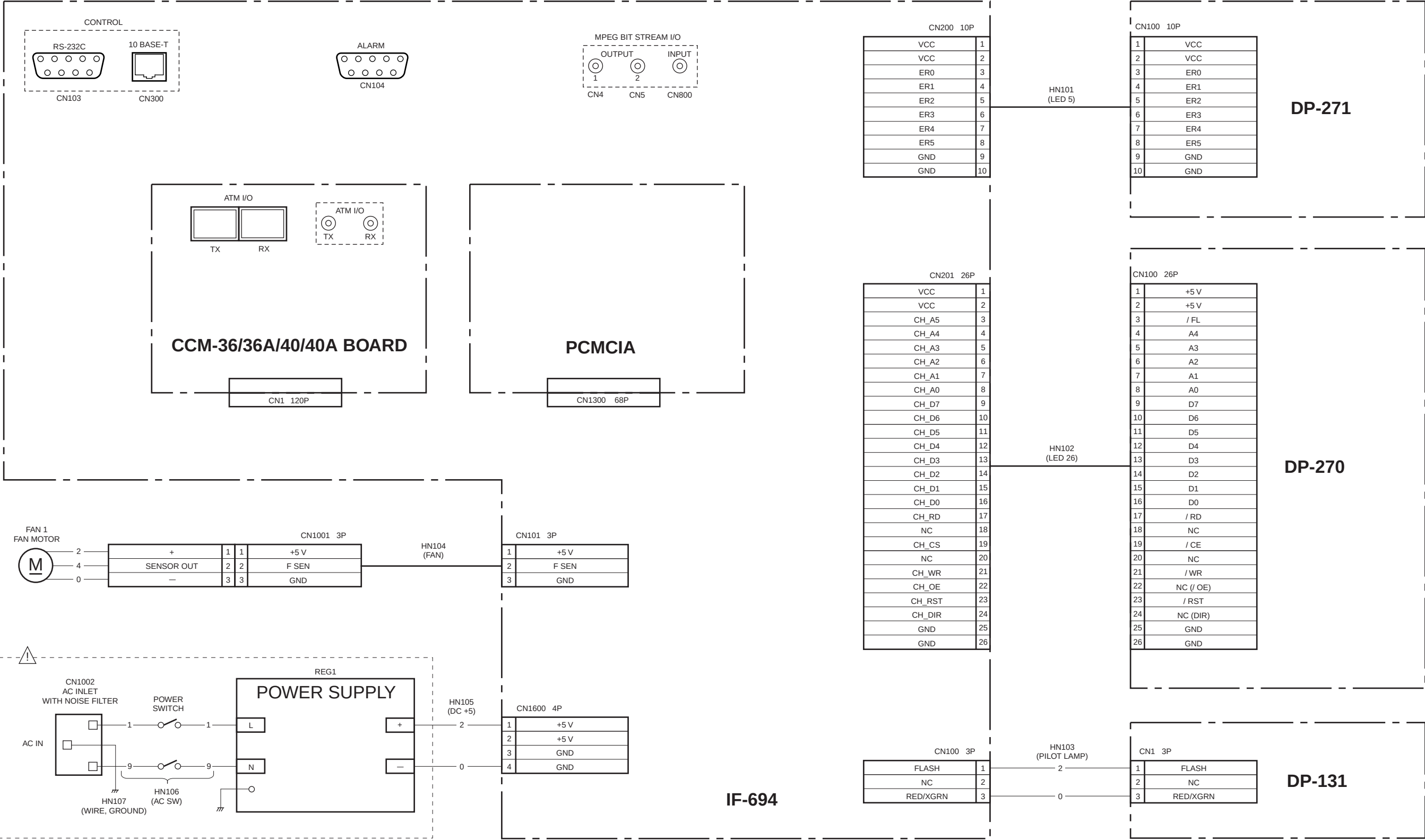
BOARD NO. 1-672-814-11

LOT NO. 811-

BDX-N1000_IF-694_011_17

5

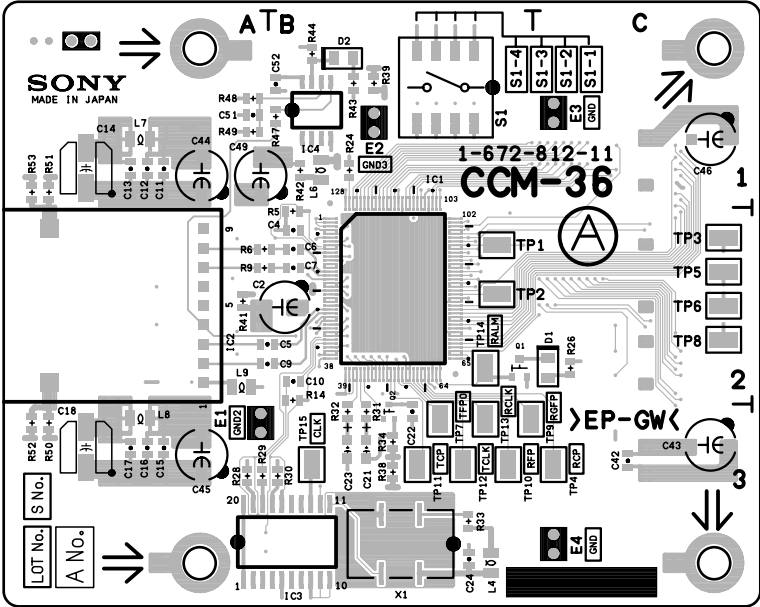




Section 6
Board Layouts

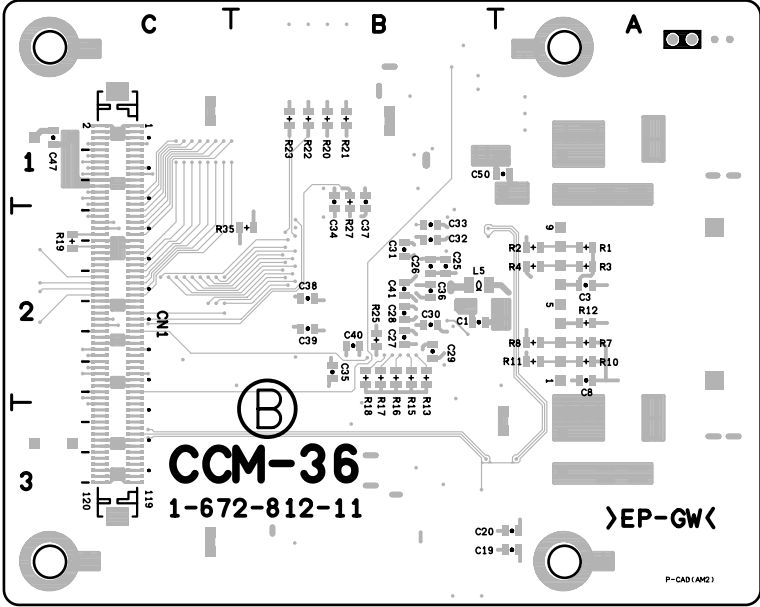
Index

Board name	Function	Page
CCM-36 (BDKP-N1001)	ATM interface board (Multi Mode Fiber)	6-2
CCM-36A (BDKP-N1002)	ATM interface board (Single Mode Fiber)	6-2
CCM-40 (BDKP-N1003)	ATM interface board (DS3)	6-3
CCM-40A (BDKP-N1004)	ATM interface board (E3)	6-3
DP-131	Indicator light board	—
DP-270	Display board	—
DP-271	LED board	—
IF-694	ATM board	6-4



BDKP-N1001 (SY) : S/N 10001 and Higher
BDKP-N1002 (SY) : S/N 10001 and Higher

CCM-36/36A -A SIDE-
SUFFIX: -11

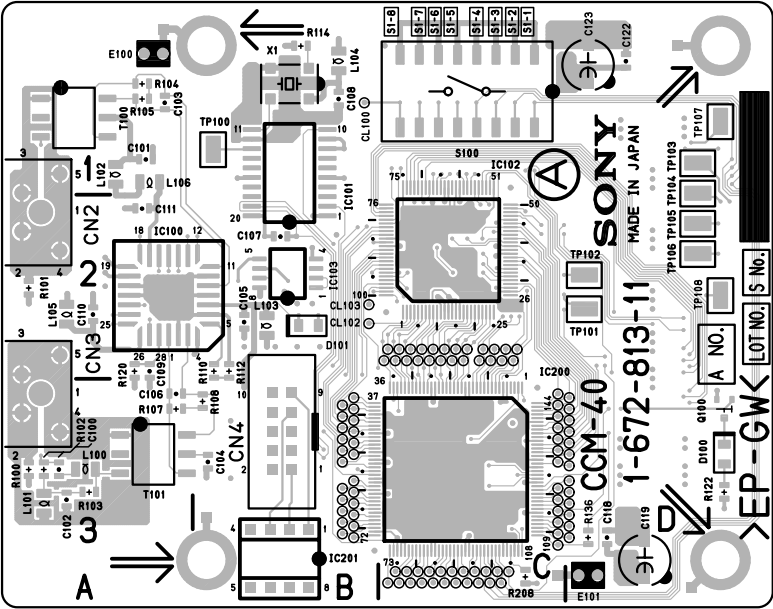


CCM-36/36A -B SIDE-
SUFFIX: -11

CCM-36/36A(1-672-812-11)

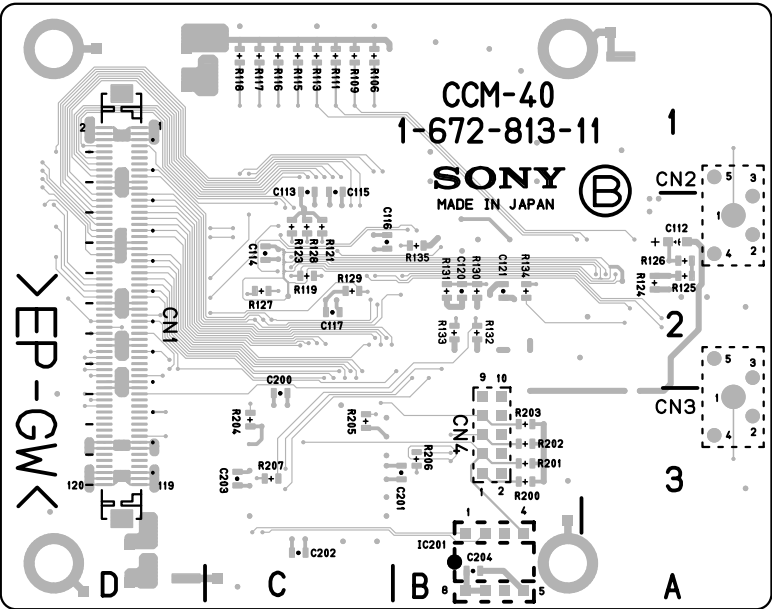
*:B SIDE

C1	*B2	C38	*B2	Q1	B2	R35	*B2
C2	B2	C39	*B2	Q2	B3	R38	B3
C3	*A2	C40	*B2			R39	B1
C4	B2	C41	*B2	R1	*A2	R41	A2
C5	A2	C42	C3	R2	*A2	R42	B1
C6	B2	C43	C3	R3	*A2	R43	B1
C7	B2	C44	A1	R4	*A2	R44	B1
C8	*A2	C45	A3	R5	B2	R47	B1
C9	A2	C46	C1	R6	A2	R48	A1
C10	B2	C47	*C1	R7	*A2	R49	A1
C11	A1	C49	A1	R8	*A2	R50	A3
C12	A1	C50	*A1	R9	A2	R51	A1
C13	A1	C51	A1	R10	*A2	R52	A3
C14	A1	C52	B1	R11	*A2	R53	A1
C15	A3			R12	*A2		
C16	A3	CN1	*C2	R13	*B2	S1	B1
C17	A3			R14	B2		
C18	A3	D1	C2	R15	*B2	TP1	B2
C19	*A3	D2	B1	R16	*B2	TP2	B2
C20	*A3			R17	*B2	TP3	C2
C21	B3	E1	A3	R18	*B2	TP4	C3
C22	B3	E2	B1	R19	*C2	TP5	C2
C23	B3	E3	C1	R20	*B1	TP6	C2
C24	B3	E4	C3	R21	*B1	TP7	B3
C25	*B2			R22	*B1	TP8	C2
C26	*B2	IC1	B2	R23	*B1	TP9	B3
C27	*B2	IC2	A2	R24	B1	TP10	B3
C28	*B2	IC3	B3	R25	*B2	TP11	B3
C29	*B2	IC4	B1	R26	C2	TP12	B3
C30	*B2			R27	*B1	TP13	B3
C31	*B2	L4	B3	R28	A3	TP14	B2
C32	*B2	L5	*B2	R29	A3	TP15	B3
C33	*B2	L6	B1	R30	B3		
C34	*B1	L7	A1	R31	B3	X1	B3
C35	*B2	L8	A3	R32	B3		
C36	*B2	L9	A2	R33	B3		
C37	*B1			R34	B3		



BDKP-N1003 (SY) : S/N 10001 and Higher
BDKP-N1004 (SY) : S/N 10001 and Higher

CCM-40/40A -A SIDE-
SUFFIX: -11

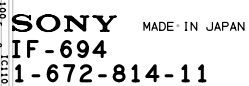


CCM-40/40A -B SIDE-
SUFFIX: -11

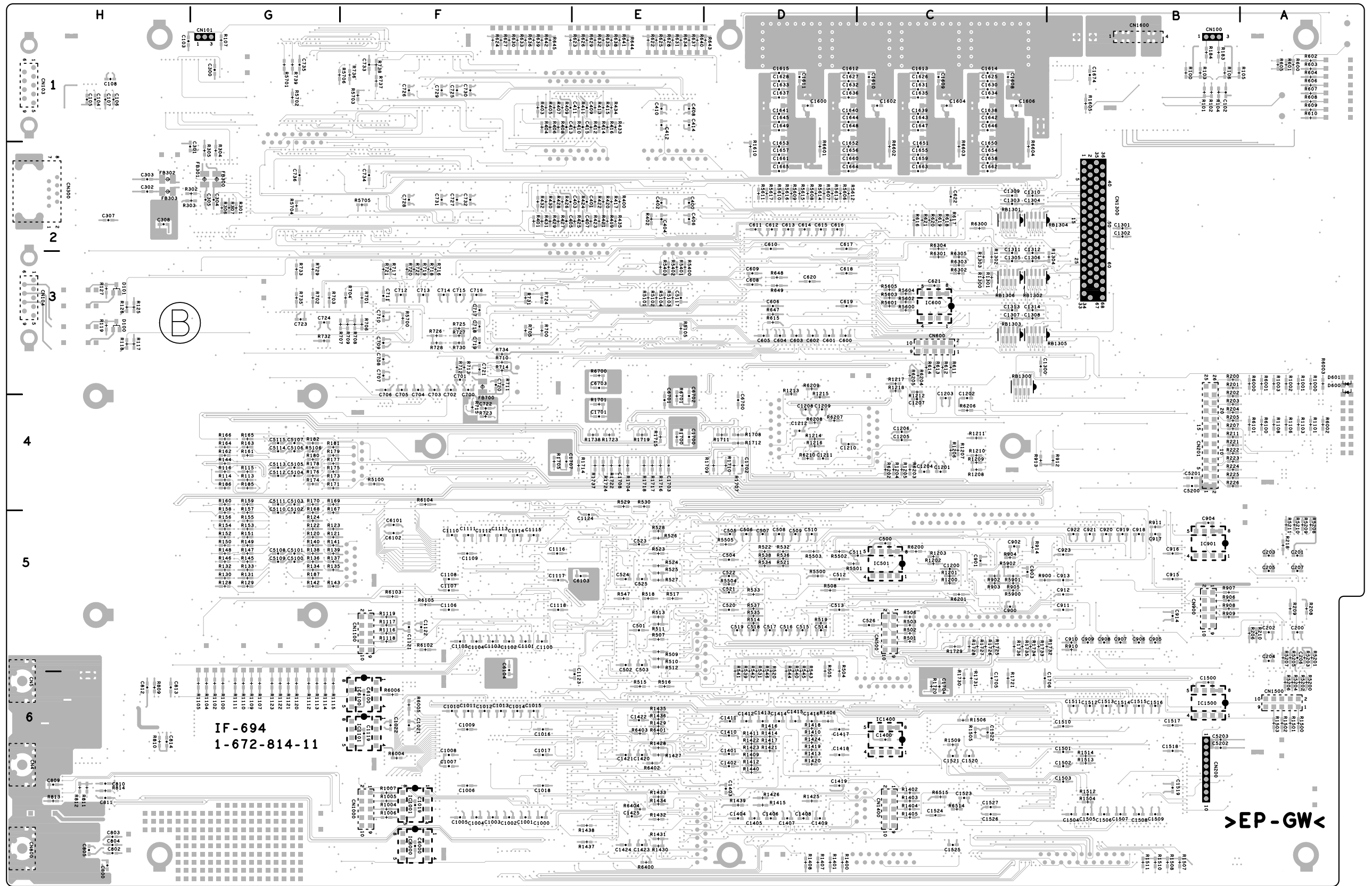
CCM-40/40A(1-672-813-11)

*:B SIDE

C100	A3	CL9	B3	CL47	D3	CL85	C3	L105	A2	R133	*B2
C101	A1	CL10	B3	CL48	C3	CL86	D3	L106	A1	R134	*B2
C102	A3	CL11	B3	CL49	D3	CL87	C3	Q100	D3	R135	*B2
C103	A1	CL12	B3	CL50	C3	CL88	D3			R136	D3
C104	B3	CL13	B3	CL51	D3	CL89	C3			R200	*B3
C105	B2	CL14	B3	CL52	C2	CL90	D3	R100	A3	R201	*B3
C106	A3	CL15	B3	CL53	C2	CL91	C3	R101	A2	R202	*B3
C107	B2	CL16	B3	CL54	C2	CL92	D3	R102	A3	R203	*B3
C108	B1	CL17	B3	CL55	C2	CL93	C3	R103	A3	R204	*C3
C109	A2	CL18	B3	CL56	C2	CL94	D3	R104	A1	R205	*C3
C110	A2	CL19	B3	CL57	C2	CL95	C3	R105	A1	R206	*B3
C111	A2	CL20	B3	CL58	C2	CL100	B1	R106	*C1	R207	*C3
C112	*A2	CL21	C3	CL59	C2	CL102	B2	R107	A3	R208	C3
C113	*C1	CL22	C3	CL60	C2	CL103	B2	R108	B3		
C114	*C2	CL23	C3	CL61	C2			R109	*C1	S100	C1
C115	*C1	CL24	C3	CL62	C2	CN1	*D2	R110	B2		
C116	*C2	CL25	C3	CL63	C2	CN2	A2	R111	*C1	T100	A1
C117	*C2	CL26	C3	CL64	C2	CN3	A3	R112	B2	T101	A3
C118	D3	CL27	C3	CL65	C2	CN4	B3	R113	*C1		
C119	D3	CL28	C3	CL66	C2			R114	B1	TP100	B1
C120	*B2	CL29	C3	CL67	C2	D100	D3	R115	*C1	TP101	D2
C121	*B2	CL30	C3	CL68	C2	D101	B2	R116	C1	TP102	D2
C122	D1	CL31	C3	CL69	C2			R117	*C1	TP103	D1
C123	D1	CL32	C3	CL70	C2	E100	A1	R118	*C1	TP104	D1
C200	*C3	CL33	C3	CL71	C2	E101	D3	R119	*C2	TP105	D2
C201	*B3	CL34	C3	CL72	C2			R120	A2	TP106	D2
C202	*C3	CL35	C3	CL73	B3	IC100	A2	R121	*C2	TP107	D1
C203	*C3	CL36	C3	CL74	B3	IC101	B2	R122	D3	TP108	D2
C204	*B3	CL37	C3	CL75	B3	IC102	C2	R123	*C2		
		CL38	D3	CL76	B3	IC103	B2	R124	*A2	X1	B1
		CL39	C3	CL77	B3	IC200	C3	R125	*A2		
CL1	C2	CL40	D3	CL78	B3	IC201	B3	R126	*A2		
CL2	C2	CL41	C3	CL79	C3			R127	*C2		
CL3	C2	CL42	D3	CL80	C3	L100	A3	R128	*C2		
CL4	B3	CL43	C3	CL81	C3	L101	A3	R129	*C2		
CL5	B3	CL44	C3	CL82	C3	L102	A1	R130	*B2		
CL6	B3	CL45	D3	CL83	C3	L103	B2	R131	*B2		
CL7	B3	CL46	C3	CL84	D3	L104	B1	R132	*B2		



IF-694 -A SIDE-SUFFIX: -11



Components locations list ; next page

IF-694 -B SIDE-
SUFFIX: -11

IF-694(1-672-814-11)

*:B SIDE

C100	B1	C709	*F3	C1109	*F5	C1601	D1	C5202	*B6	CL93	E2	CL202	C5	CL580	C6	CL6104	F5
C101	B1	C710	*F3	C1110	*F5	C1602	*C1	C5203	*B6	CL94	E3	CL203	C5	CL581	C6	CL6105	F5
C102	*B1	C711	*F3	C1111	*F5	C1603	C1	C6000	*F6	CL95	E2	CL204	C5	CL582	C6	CL6106	F5
C103	*H1	C712	*F3	C1112	*F5	C1604	*C1	C6100	*F6	CL96	E3	CL205	C5	CL583	C6	CL6107	F5
C104	*H1	C713	*F3	C1113	*F5	C1605	*C1	C6101	*F5	CL97	E2	CL206	B5	CL584	C6	CL6108	F5
C105	*H1	C714	*F3	C1114	*F5	C1606	*C1	C6102	*F5	CL98	E3	CL207	C5	CL585	C6	CL6109	F5
C106	*H1	C715	*F3	C1115	*F5	C1607	C1	C6103	*E5	CL99	E2	CL208	C5	CL586	C6	CL6110	F5
C107	*H1	C716	*F3	C1116	*F5	C1608	*C1	C6104	*F5	CL100	E3	CL209	C5	CL587	D6	CL6300	D3
C108	*H1	C717	*F3	C1117	*F5	C1609	*C1	C6700	*D4	CL101	F2	CL210	C5	CL588	D6	CL6600	B1
C200	*A5	C718	*F3	C1118	*F5	C1610	*C1	C6701	*E4	CL102	F3	CL211	C5	CL589	D6	CL6601	B1
C201	*A5	C719	*F3	C1119	*F6	C1611	*D1	C6702	*E4	CL103	F2	CL212	C5	CL590	C6	CL6602	B1
C202	*A5	C720	*F3	C1121	*F5	C1612	*D1	C6703	*E3	CL104	F3	CL213	C5	CL591	D6	CL6700	D4
C203	*A5	C721	*F3	C1122	*F5	C1613	*C1			CL105	F2	CL214	C5	CL592	C6	CL6701	D3
C204	*A5	C722	*F4	C1123	*E6	C1614	*C1	CL1	G3	CL106	F3	CL215	C5	CL593	D6	CL6702	D3
C205	*A5	C723	*G3	C1124	*E5	C1615	*D1	CL2	G3	CL107	F2	CL216	C5	CL594	C6	CL6703	E4
C206	*A5	C724	*G3	C1125	E5	C1616	B1	CL3	F5	CL108	E1	CL217	C5	CL595	D6	CL6704	E3
C207	*A5	C725	*F1	C1126	F6	C1617	C1	CL4	F5	CL109	E1	CL218	C5	CL596	C6	CL6705	E3
C300	*G1	C726	*F1	C1127	E5	C1618	C1	CL5	F5	CL110	E1	CL219	C5	CL597	D6		
C301	*H2	C727	*F2	C1128	F5	C1619	D1	CL6	F4	CL111	E1	CL220	C5	CL598	E6	CN1	G4
C302	*H2	C728	*F2	C1200	*C5	C1620	D1	CL7	F4	CL112	E1	CL221	C5	CL599	D6	CN4	H6
C303	*H2	C729	*F1	C1201	*C4	C1621	C1	CL8	F4	CL113	E1	CL222	C5	CL600	E6	CN5	H6
C304	*G2	C730	*F1	C1202	*C4	C1622	C1	CL9	F4	CL114	E1	CL233	F6	CL601	D6	CN100	B1
C305	*G2	C731	*F2	C1203	*C4	C1623	D1	CL10	F4	CL115	E1	CL234	F6	CL602	E6	CN101	G1
C306	H2	C732	*F2	C1204	*C4	C1624	D1	CL11	F4	CL116	E1	CL235	F6	CL603	D6	CN103	H1
C307	*H2	C733	*F1	C1205	*C4	C1625	*C1	CL12	F4	CL117	F1	CL236	F6	CL604	E6	CN104	H3
C308	*H2	C734	*F2	C1206	*C4	C1626	*C1	CL13	F4	CL118	F1	CL237	F6	CL605	D6	CN200	B6
C309	H2	C735	*G1	C1207	*C4	C1627	*D1	CL14	F4	CL119	F1	CL500	F5	CL606	E6	CN201	B4
C400	*E2	C736	*G2	C1208	*D4	C1628	*B1	CL15	F4	CL120	F1	CL501	F5	CL607	D6	CN300	H2
C401	*E2	C800	*H6	C1209	*D4	C1629	B1	CL16	F4	CL121	F1	CL502	F5	CL608	E6	CN500	C5
C402	*E2	C801	H6	C1210	*D4	C1630	*C1	CL17	F5	CL122	F1	CL503	F5	CL609	D6	CN600	C3
C403	*F2	C802	*H6	C1211	*D4	C1631	*C1	CL18	F5	CL123	F1	CL508	C5	CL610	E6	CN700	F3
C404	*E2	C803	*H6	C1212	*D4	C1632	*D1	CL19	F5	CL124	C2	CL509	C5	CL611	D6	CN800	H6
C405	*F2	C804	*H6	C1300	*C3	C1633	*D1	CL20	F5	CL125	C6	CL510	C5	CL612	E6	CN900	B5
C406	*E2	C805	*H6	C1301	*B2	C1634	*C1	CL21	F5	CL126	C6	CL511	C5	CL613	B6	CN1000	F6
C407	*E2	C806	H6	C1302	*B2	C1635	*C1	CL22	F5	CL127	C6	CL512	C5	CL614	B6	CN1100	F5
C408	*E1	C807	H6	C1303	*C2	C1636	*D1	CL23	F5	CL128	C6	CL513	C5	CL615	B6	CN1300	B2
C409	*E1	C808	H6	C1304	*C2	C1637	*D1	CL24	F5	CL129	C6	CL514	C5	CL616	B6	CN1400	C6
C410	*E1	C809	*H6	C1305	*C3	C1638	*C1	CL26	A6	CL130	C6	CL515	C5	CL617	B6	CN1500	A6
C411	*F1	C810	*H6	C1306	*C3	C1639	*C1	CL27	A6	CL131	C6	CL516	C5	CL618	B6	CN1600	B1
C412	*E1	C811	*H6	C1307	*C3	C1640	*D1	CL28	A5	CL132	C6	CL517	C5	CL619	B6		
C413	*F1	C812	*H6	C1308	*C3	C1641	*D1	CL29	A5	CL133	C6	CL518	C5	CL620	B6	D100	*H3
C414	*E1	C813	*H6	C1309	*C2	C1642	*C1	CL30	A5	CL134	C6	CL519	C5	CL621	B6	D101	*H3
C415	*E1	C814	*H6	C1310	*C2	C1643	*C1	CL31	A5	CL135	C6	CL520	C5	CL622	B6	D300	G2
C500	*C5	C815	H6	C1311	*C3	C1644	*D1	CL32	A5	CL136	C6	CL521	C5	CL623	B6	D301	G2
C501	*E5	C816	H6	C1312	*C3	C1645	*D1	CL33	A5	CL137	C6	CL522	C5	CL624	B6	D500	D5
C502	*E5	C817	H6	C1313	*C3	C1646	*C1	CL34	A5	CL138	D6	CL523	C5	CL625	B6	D501	D5
C503	*E5	C818	H6	C1314	*C3	C1647	*C1	CL35	A5	CL139	D5	CL524	C5	CL626	B6	D600	A3
C504	*D5	C900	*C5	C1400	*C6	C1648	*D1	CL36	A5	CL140	E5	CL525	C5	CL627	B6	D601	A3
C505	*D5	C901	*C5	C1401	*D6	C1649	*D1	CL37	A5	CL141	D5	CL526	C5	CL628	B6	D602	A4
C506	*D5	C902	*C5	C1402	*D6	C1650	*C2	CL38	A5	CL142	E5	CL527	C5	CL629	B6	D603	A4
C507	*D5	C903	*C5	C1403	*D6	C1651	*C2	CL39	A5	CL143	D5	CL528	C5	CL630	B6	D800	H6
C508	*D5	C904	*B5	C1404	*D6	C1652	*D2	CL40	A5	CL144	E5	CL529	C5	CL631	B6	D900	B4
C509	*D5	C905	*B5	C1405	*D6	C1653	*D2	CL41	A5	CL145	D5	CL530	C5	CL632	B6	D901	C4
C510	*D5	C906	*B5	C1406	*D6	C1654	*C2	CL42	A5	CL146	E5	CL531	C5	CL633	C6	D1000	A3
C511	*C5	C907	*B5	C1407	*D6	C1655	*C2	CL43	A5	CL147	D5	CL532	C5	CL634	C6	D1001	A3
C512	*D5	C908	*B5	C1408	*D6	C1656	*D2	CL44	A5	CL148	E5	CL533	C5	CL635	B1	D1002	A3
C513	*D5	C909	*B5	C1409	*D6	C1657	*D2	CL45	A5	CL149	D5	CL534	C4	CL636	B1	D1003	A3
C514	*D5	C910	*B5	C1410	*D6	C1658	*C2	CL47	H2	CL150	E5	CL535	C4	CL637	B1	D1100	A4
C515	*D5	C911	*B5	C1411	*D6	C1659	*C2	CL49	D2	CL151	D5	CL536	C4	CL638	B1	D1101	A4
C516	*D5	C912	*B5	C1412	*D6	C1660	*D2	CL50	E2	CL152	E6	CL537	C4	CL639	D4	D1102	A4
C517	*D5	C913	*B5	C1413	*D6	C1661	*D2	CL51	E2	CL153	D6	CL538	C4	CL640	E4	D1103	A4
C518	*D5	C914	*B5	C1414	*D6	C1662	*C2	CL52	E2	CL154	C2	CL539	C4	CL641	E4	D1400	D6
C519	*D5	C915	*B5	C1415	*D6	C1663	*C2	CL53	E2	CL156	F1	CL540	C4	CL642	C5	D1401	D6
C520	*D5	C916	*B5	C1416	*D6	C1664	*D2	CL54	E2	CL157	F1	CL541	C4	CL643	C5	D1402	D6
C521	*D5	C917	*B5	C1417	*D6	C1665	*D2	CL55	E2	CL158	F1	CL542	C4	CL644	C5	D1403	D6
C522	*D5	C918	*B5	C1418	*D6	C1666	A5	CL56	E2	CL159	F1	CL543	C4	CL645	C6	D1500	B6
C523	*E5	C919	*B5	C1419	*D6	C1667	A6	CL57	E2	CL160	F1	CL544	C4	CL646	C6	D1501	B6
C524	*E5	C920	*B5	C1420	*E6	C1668	A6	CL58	E2	CL161	F1	CL545	C4	CL647	E4	D1502	B6
C525	*E5	C921	*B5	C1421	*E6	C1669	G1	CL59	E2	CL162	F1	CL546	C4	CL648	E4	D1503	B6
C526	*C5	C922	*B5	C1422	*E6	C1670	C3	CL60	E2	CL163	F1	CL547	C4	CL649	E4	D1600	B1
C600	*D3	C923	*B5	C1423	*E6	C1671	D6	CL61	E2	CL164	C2	CL548	D4	CL650	C5	D1601	B1
C601	*D3	C1000	*F6	C1424	*E6	C1672	G6	CL62	E2	CL165	C2	CL549	D4	CL651	D4	D1603	B1
C602	*D3	C1001	*F6	C1425	*E6	C1673	G3	CL63	E2	CL166	C2	CL550	D4	CL5600	C3	D1605	D1
C603	*D3	C1002	*F6	C1500	*B6	C1674	*B1	CL64	E2	CL173	G2	CL551	D4	CL5601	C3	D1606	C1
C604	*D3	C1003	*F6	C1501	*B6	C1700	*E4	CL65	D3	CL174	G1	CL552	D4	CL5602	C3	D1607	C1
C605	*D3	C1004	*F6	C1502	*B6	C1701	*E4	CL66	E2	CL175	G2	CL553	D4	CL5603	C3	D1608	C1
C606	*D3	C1005	*F6	C1503	*B6	C1702	*D4	CL67	E3	CL176	G1	CL554	D4	CL5604	C3	D1609	D2
C607	A1	C1006	*F6	C1504	*B6	C1703	*E4	CL68	E2	CL177	G2	CL555	D4	CL5605	C3	D5100	E3
C608	*D3	C1007	*F6	C1505	*B6	C1704	*C6	CL69	E3	CL178	G1	CL556	D4	CL5606	D3	D6000	A3
C609	*D3	C1008	*F6	C1506	*B6	C1705	*C6	CL70	E2	CL179	G2	CL557	D4	CL5607	D3	D6001	A3
C610	*D2	C1009	*F6	C1507	*B6	C1706	*C6	CL71	E3	CL180	G1	CL558	D4	CL5608	D3	D6002	A3
C611	*D2	C1010	*F6	C1508	*B6	C1707	*F4	CL72	E2	CL181	G2	CL559	D4	CL5609	D3	D6100	A4
C612	*D2	C1011	*F6	C1509	*B6	C1708	*E4	CL73	E3	CL182	G1	CL560	D4	CL5611	C2	D6101	A4
C613	*D2	C1012	*F6	C1510	*B6	C5100	*G5	CL74	E2	CL183	G2	CL561	D4	CL6000	F6	D6102	A4
C614	*D2	C1013	*F6	C1511	*B6	C5101	*G5	CL75	E3	CL184	G1	CL562	D4	CL6001	F6	D6600	B1
C615	*D2	C1014	*F6	C1512	*B6	C5102	*G5	CL76	E2	CL185	G2	CL563	C3	CL6002	F6	D6601	B1
C616	*D2	C1015	*F6	C1513	*B6	C5103	*G4	CL77	E2	CL186	G1	CL564	C3	CL6003	F6	D6602	B1
C617	*D2	C1016	*F6														

For the U.S.A. and Canada

SAFETY CHECK-OUT

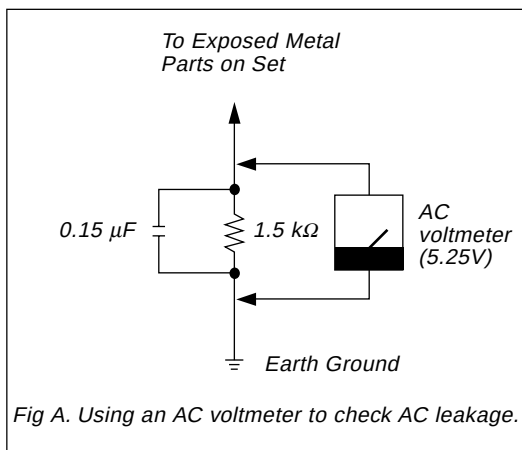
After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)





BDX-N1000 (SY)
BDKP-N1001 (SY)
BDKP-N1002 (SY)
BDKP-N1003 (SY)
BDKP-N1004 (SY) J, E
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